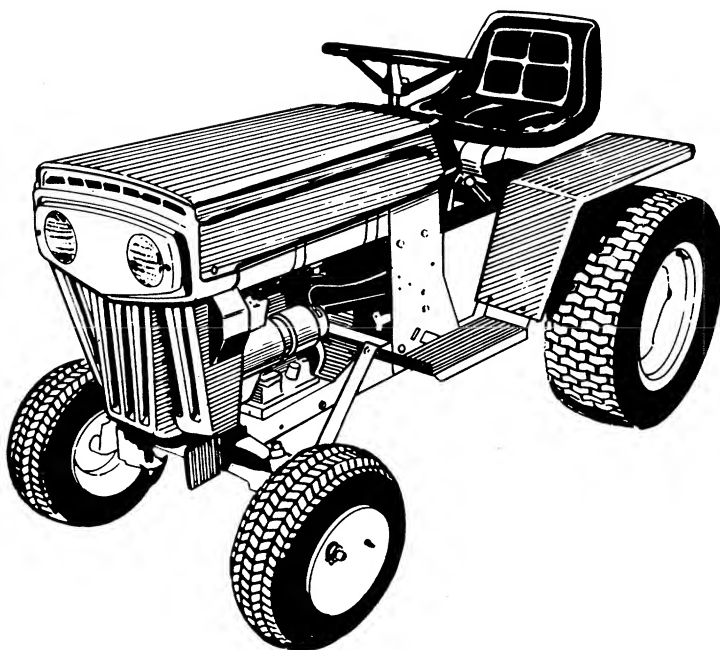


OWNER'S GUIDE

50 CENTS

**Model No. 141-990 14 H.P.
Hydrostatic Drive**

GARDEN TRACTOR



*712-221
class looking
7B-18*

WARRANTY

For one year from date of purchase, MTD Products Inc. will replace for the original purchaser, free of charge, F.O.B. factory or authorized service firm, any part or parts found to be defective in material or workmanship. All transportation charges on parts submitted for replacement under this warranty must be paid by the purchaser. This warranty does not include replacement of parts which become inoperative through misuse, excessive use, accident, neglect, improper maintenance or alterations by unauthorized persons. This warranty does not include the engine, motor, battery, battery charger or any component parts thereof. For service on these units refer to the applicable manufacturer's warranty.

The above warranty will apply only to the original owner and will be effective only if the warranty card has been properly processed. It will not apply where the unit has been used commercially.

Warranty service is available through your local authorized service dealer or distributor. UNDER NO CIRCUMSTANCES WILL THE RETURN OF A COMPLETE UNIT BE ACCEPTED BY THE FACTORY UNLESS PRIOR WRITTEN PERMISSION HAS BEEN EXTENDED.

MTD PRODUCTS INC • 5389 WEST 130TH ST. • P.O. BOX 2471 • CLEVELAND, OHIO 44111

FORM NO. 770-3136

BE A PRO! KNOW YOUR MACHINE — HOW TO CONTROL IT SMOOTHLY, AND HOW TO STOP IT QUICKLY! AND — READ THE OWNERS MANUAL

SAFETY TIPS FOR GARDEN TRACTORS AND ATTACHMENTS

Improper use of riding lawn mowers, garden tractors and attachments on the part of the operator can result in injury. To reduce this possibility, give complete and undivided attention to the job at hand.

1. Know the controls and how to stop quickly — READ THE OWNER'S MANUAL.
2. Do not allow children to operate machine; nor adults to operate it without proper instruction.
3. Clear work area of objects which might be picked up and thrown.
4. Disengage all clutches and shift into neutral before starting motor. Keep hands, feet and clothing away from power driven parts.
5. Do not carry passengers. Keep children and pets a safe distance away.
6. Never direct discharge of any material toward by-standers nor allow anyone near machine while in operation.
7. Disengage power to any attachment and stop motor before leaving operator position.
8. Take precautions when leaving machine unattended (to avoid accidental starting, rolling away, accidental dropping of any attachment, etc.)
9. Disengage power to any attachment whenever it is not in use or when traveling from one work area to another.
10. Stay alert for holes and other hidden hazards.
11. Know what is behind you before backing up.
12. Beware of steep slopes; reduce speed on all side slopes and sharp turns to prevent tipping or losing control.
13. Don't stop or start suddenly when going uphill or downhill.
14. Use extra care when pulling loads or using heavy equipment. (Refer to your owner's manual)
15. Watch out for traffic when near roadways.
16. Handle gasoline with care — it is highly flammable.
 - A. Use approved gasoline container.
 - B. Never add gasoline to running motor — fill tank out of doors and wipe up spilled gasoline.
 - C. Replace gasoline cap securely.
 - D. Open doors if motor is run in garage — exhaust gases are dangerous.
17. Keep machine in good operating condition and keep safety devices in place. Use guards as instructed in owner's manual.
18. Disengage power to any attachment and stop motor before making repairs or adjustments.
19. While operating the mower, if any foreign object is struck, stop the mower and inspect for damage. Do not restart or operate the mower until all damage has been repaired.

KNOW YOUR TRACTOR

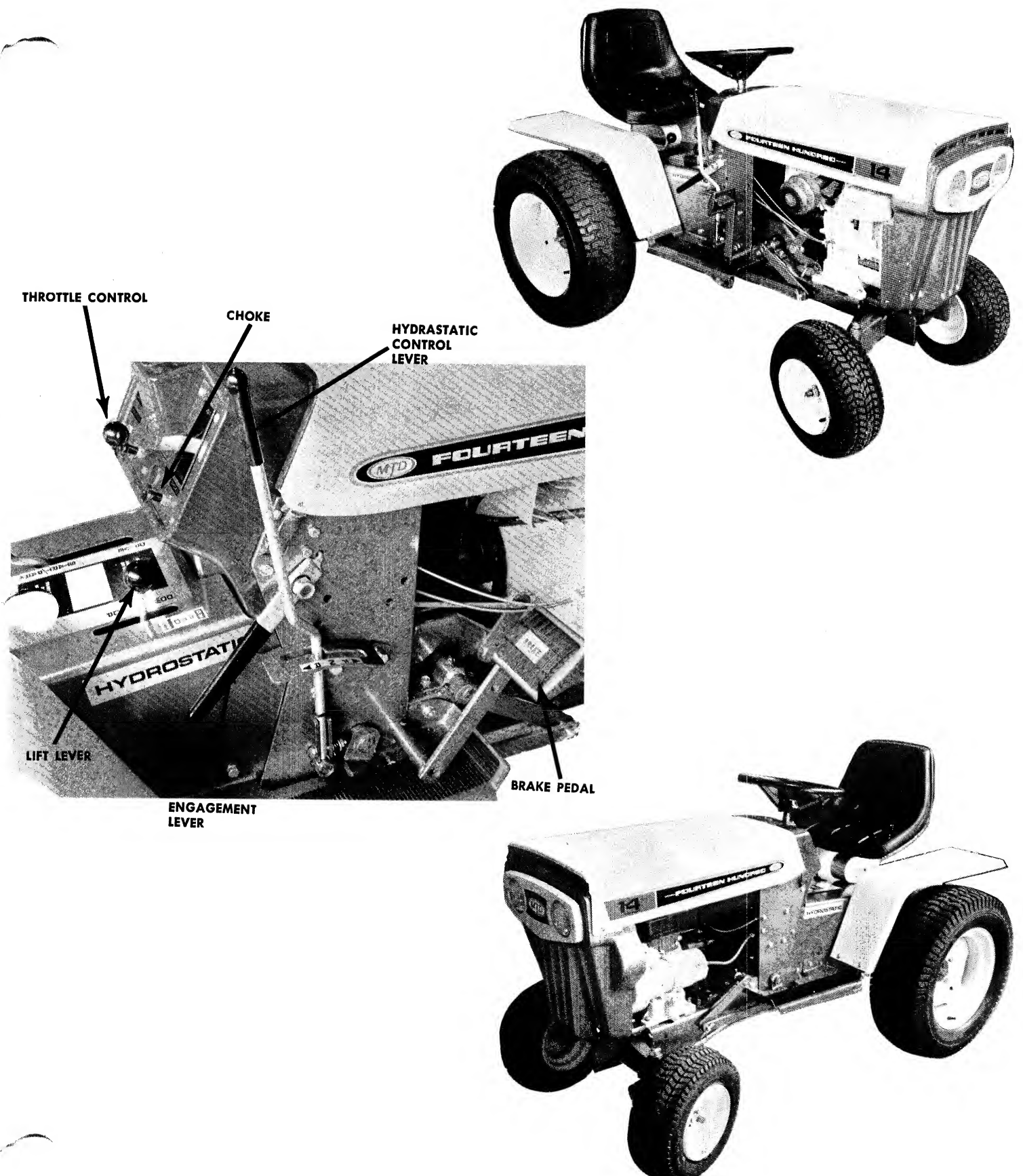


FIGURE 1. 14 HP HYDROSTATIC TRACTOR

ASSEMBLY INSTRUCTIONS

ACTIVATING THE BATTERY

WARNING

ELECTROLYTE IS A MIXTURE OF SULPHURIC ACID AND WATER. AVOID CONTACT WITH SKIN, EYES, AND CLOTHING. IF ELECTROLYTE IS SPILLED FLUSH AREA WITH CLEAR WATER AND NEUTRALIZE WITH SOLUTION OF WATER AND BAKING SODA OR WATER AND AMMONIA.

See the instructions packed with the battery for activating.

INSTALLING THE BATTERY.

Step 1. Place the battery in the tractor with the Negative terminal towards the front of the tractor. Do not push the battery all the way in.

Step 2. Attach the positive cable to the positive battery terminal.

NOTE

The positive cable is marked (P +).

Step 3. Attach the negative cable to the negative battery terminal.

NOTE

The negative cable is marked (N -).

Step 4. Hook the rear hold down rod in the hole in the bottom of the battery box.

Step 5. Slide the battery in place.

Step 6. Place the cross rod over the rear hold down rod and place a flat washer and wing nut on the rear hold down rod.

NOTE

Do not tighten.

Step 7. Hook the front hold down rod in the hole in the bottom of the battery box.

Step 8. Place the cross rod over the front hold down rod and place a flat washer and wing nut on the front hold down rod.

Step 9. Tighten the wing nuts finger tight.

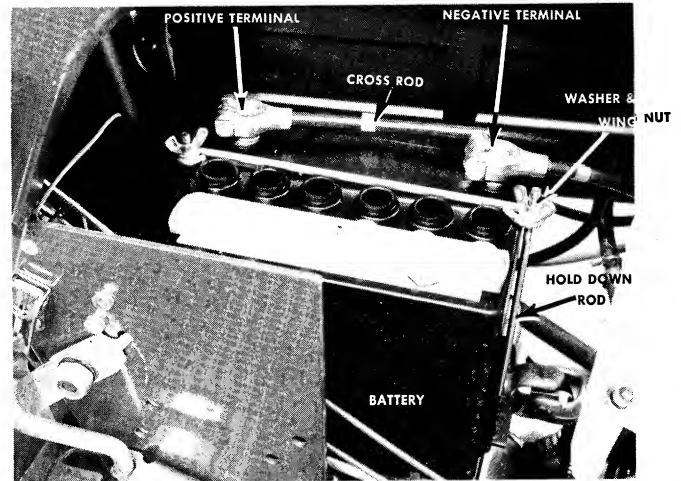


FIGURE 2. BATTERY INSTALLATION

ASSEMBLING THE THREE POINT HITCH

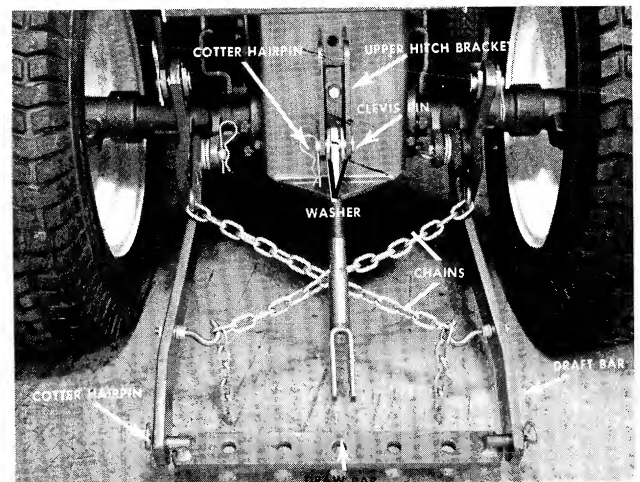


FIGURE 3. THREE POINT HITCH

Step 1. Adjust the clevis end on both the right and left sides of the tractor so that 3½ inches of threads show. See Figure 4.

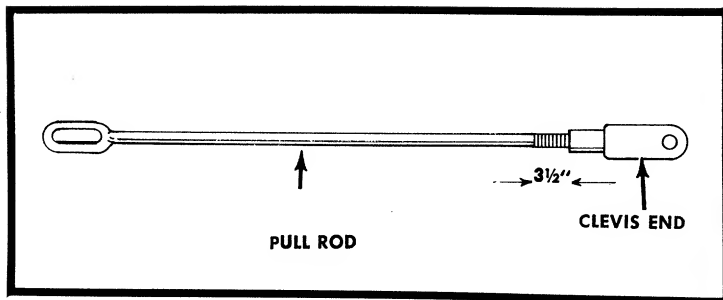


FIGURE 4. PULL RODS

Step 2. Assemble the right hand draft bar assembly to the axle bracket using the longest clevis pin, two large washers and a cotter hairpin. See Figure 5.

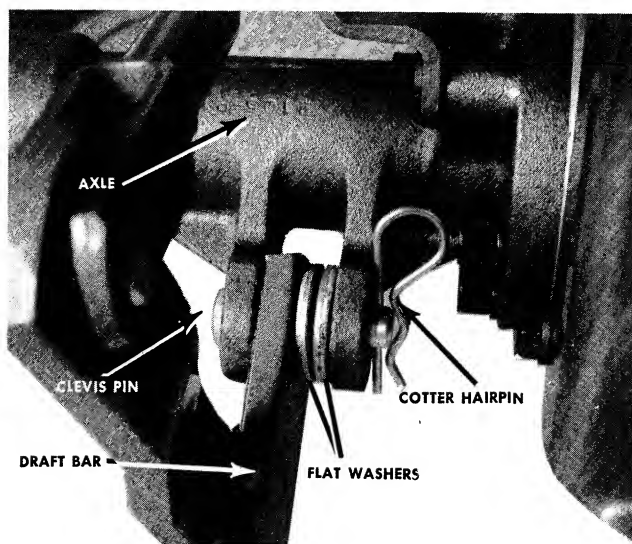


FIGURE 5. DRAFT BAR ASSEMBLY

Step 3. Assemble the left hand draft bar the same way.

Step 4. Assemble the clevis end of the pull rods to the top hole in the draft bars using the short clevis pins and secure with cotter hairpins. See Figure 6.

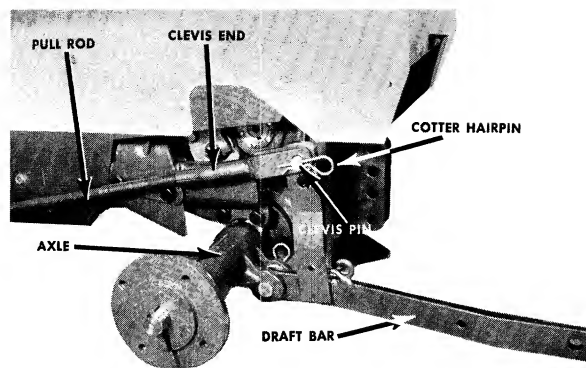


FIGURE 6. PULL ROD ASSEMBLY

Step 5. Assemble the draw bar to the draft bars and secure with cotter hairpins. See Figure 3.

Step 6. Screw one hex nut all the way on each of the hook bolts. See Figure 7.

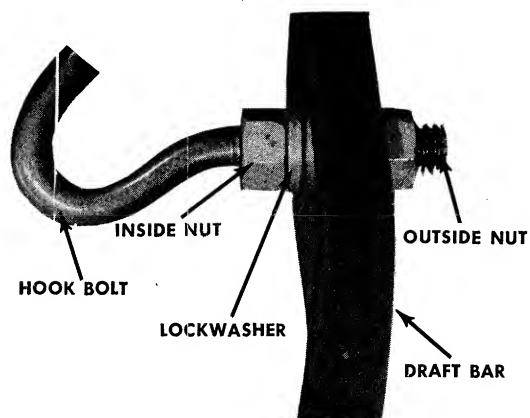


FIGURE 7. HOOK BOLT ASSEMBLY

Step 7. Place a lockwasher on the hook bolt and place the hook bolt through the draft bar so it is on the inside. Do this on both draft bars. See Figures 3 and 7.

NOTE

Only screw the outside nut on a few threads so it can be adjusted to take up the slack in the chain.

Step 8. Fasten the chains to the rear hook welded on the draft bar and cross over to the hook bolt. Do both chains this way. See Figure 3.

NOTE

Pull the chains to make as tight as possible.

Step 9. Tighten the outside nuts on the hook bolt until there is only about $\frac{1}{2}$ " slack in the center of the chain. See Figure 3 and 7.

Step 10. Tighten the inside nut. See Figure 7.

Step 11. Assemble the two halves of the center adjustment arm together until there is $1\frac{1}{8}$ " of thread showing. See Figure 8.

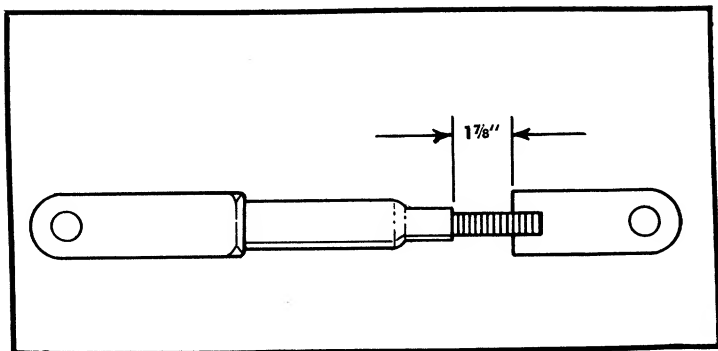


FIGURE 8. CENTER ADJUSTMENT ARM.

Step 12. Assemble the flat end of the Center Adjustment Arm to the bottom hole in the Upper Hitch Bracket with two flat washers, a clevis pin and a cotter hairpin. See Figure 3.

BEFORE STARTING

FILL FUEL TANK

Use clean fresh "regular" grade gasoline. Fill tank completely. Gasoline tank capacity is $4\frac{1}{2}$ gallons.

DO NOT FILL GASOLINE TANK WHILE ENGINE IS RUNNING. Avoid spilling gasoline on a hot engine—this may cause an explosion and serious injury.

DO NOT MIX OIL WITH GASOLINE

OIL RECOMMENDATIONS

WINTER
(Below 40° F.)
Use SAE 5W-20

SUMMER
(Above 40° F.)
Use SAE 30

Any high quality detergent oil having the American Petroleum Institute classification "For Service MS" can be used in your Briggs & Stratton engine. Detergent oils keep the engine cleaner and retard the formation of gum and varnish deposits. The above oil recommendations are the result of extensive testing. No special additives should be used.

FILL CRANKCASE WITH OIL

Remove the oil filler plug. Place the engine level. Fill the crankcase to overflowing. POUR SLOWLY. CAPACITY 4 PINTS. Replace the filler plug.

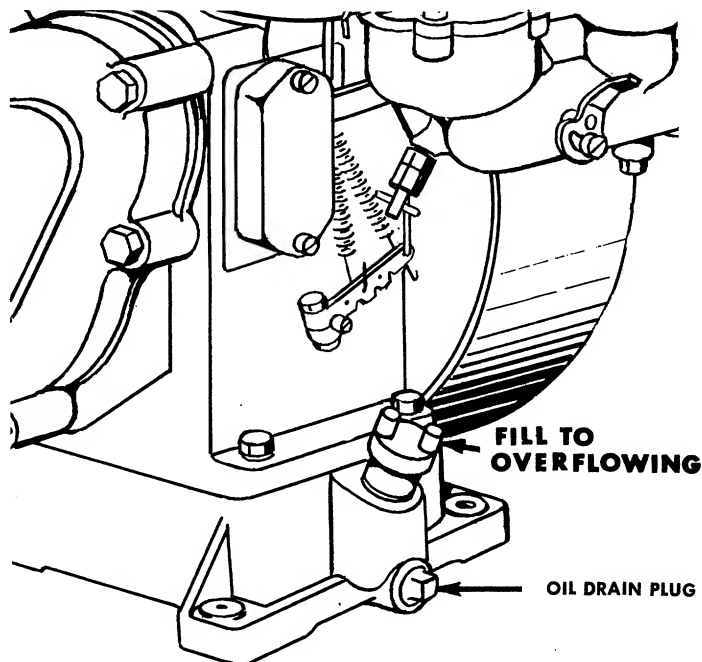


FIGURE 9. OIL FILL AND DRAIN

GENERAL INFORMATION

ENGINE AND DRIVE TRAIN

ENGINE—14 HP synchro-balanced Briggs and Stratton cast iron block with a 12-volt electric system.

HYDROSTATIC TRANSMISSION—Marshallmatic Model 10 Hydrostatic. Driven by a universal shaft from the engine.

REAR AXLE—Peerless two speed axle driven by a gear on the hydrostatic.

ORIENTATION

Your tractor is right hand (R.H.) or left hand (L.H.) as you operate it.

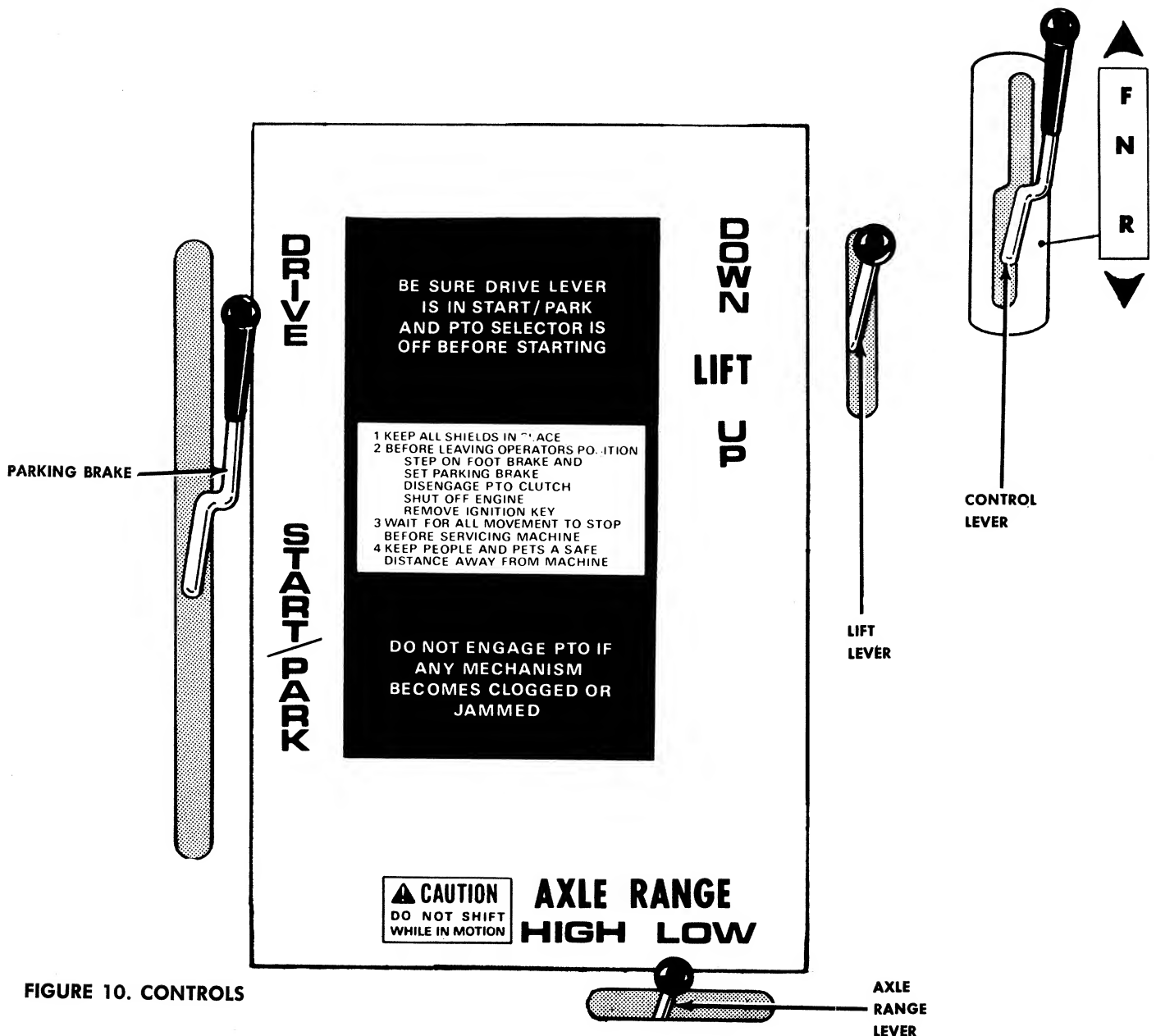
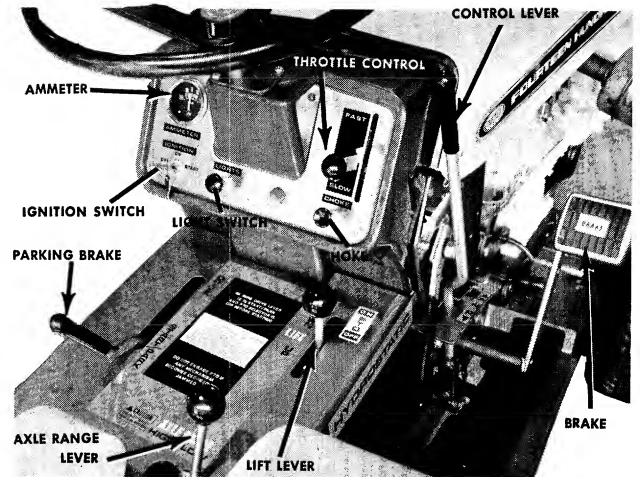


FIGURE 10. CONTROLS

BRAKE PEDAL

This pedal is operated with your right foot. Depress the pedal to stop the tractor. See Figure 1.

NOTE

Depressing the brake pedal moves the control lever for the hydrostatic into neutral position.

PARKING BRAKE

The parking brake is located on the left side of the tractor.

To operate, depress the brake pedal with your foot and pull the parking brake back into the START/PARK position.

NOTE

The tractor will only start when the parking brake is in the START/PARK position.

To release, place your foot on the brake pedal and move the parking brake into the DRIVE position.

NOTE

To free wheel the tractor with the engine off, place the parking brake in the DRIVE position.

HYDROSTATIC CONTROL LEVER (Control Lever)

The Control Lever is used to regulate the ground speed of the tractor. Moving the Control Lever forward (F) makes the tractor travel faster, moving the Control Lever backwards (R) moves the tractor in reverse.

NOTE

To increase rear wheel torque (pulling power) move control lever towards the NEUTRAL position. The tractor responds similar to shifting to a lower gear with a gear type transmission.

The control lever can be used for dynamic braking (to hold back the unit) when going down hill or when using rotary tiller by moving the lever towards NEUTRAL position. Additional braking can be obtained by moving control lever gradually into the direction opposite of your direction of travel. When you depress the brake pedal, the Control Lever moves into Neutral (N).

AXLE RANGE LEVER

Your tractor is equipped with a two speed rear axle to make your tractor more versatile.

The LOW range is used for operating the rotary tiller, mold board plow and should be used anytime the engine is laboring hard.

Use the HIGH range for regular work.

LOW RANGE 0-4 mph

HIGH RANGE 0-8 mph

NOTE

The Axle Range Lever must be in either the HIGH or LOW range position. The tractor will not move if it is in the center position.

LIFT LEVER

The Lift Lever is located on the right hand side of the tractor and is used to raise and lower the attachments. The lift is hydraulic and will only operate when the engine is running, however, you can move the lift lever to the DOWN position and lower any attachment if the engine is not running.

The lift lever is spring loaded and will always return to the CENTER position.

The three point hitch is operated off the lift lever and does not have to be disconnected when attaching the cutting deck or snow blade.

POWER TAKE OFF (PTO) FRONT AND REAR

There are two PTO's on your tractor. The front PTO (see Figure 11) is located behind the grille and is used to operate the snow thrower. This PTO is attached directly to the engine and runs whenever the engine is running.



FIGURE 11. FRONT PTO SHOWN WITH GRILLE REMOVED

The rear PTO (see Figure 12) is located under the tractor and is used to operate the grass cutting deck and the rotary tiller.

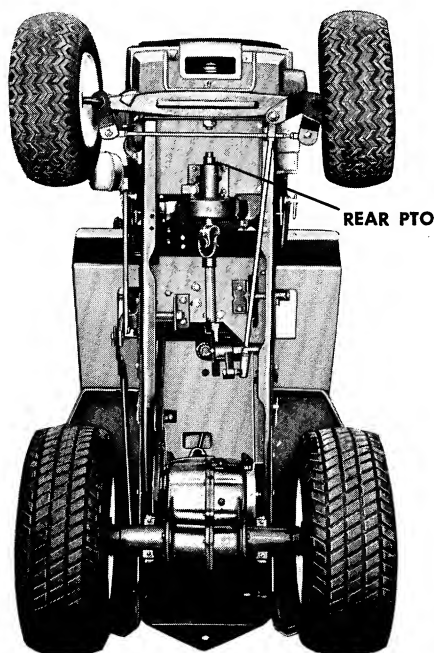


FIGURE 12. REAR PTO SHOWN WITH DRIVE SHAFT ATTACHED

The rear PTO can be shut off while the engine is running by moving the PTO lever, located on the right hand side of the tractor, into the OFF position. See Figures 10 and 13.

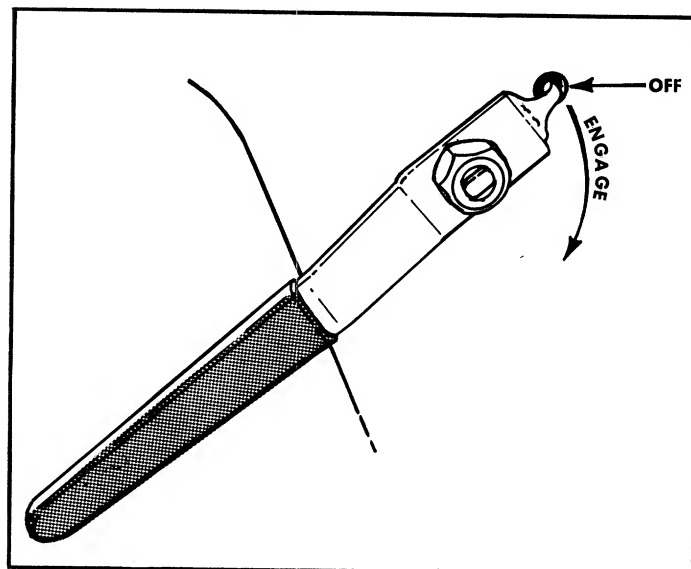


FIGURE 13. PTO LEVER

IGNITION SWITCH

Turn the key to the right to engage the starting motor on the engine. To shut off the engine turn the key to the left to the OFF position. See Figure 10.

WARNING

Remove the key from the switch when the tractor is not in use.

THROTTLE CONTROL

The throttle is used to regulate the engine speed. Move the throttle control up to the FAST position and down to the SLOW position. See Figure 10.

CHOKE

Before starting the engine, pull the choke knob all the way out. After engine starts, move the choke knob in gradually until it is completely in.

When the engine is hot the choke may not be needed to start. See Figure 10.

LIGHTS

Pull the light switch out to turn on the headlights. See Figure 10.

WHEELS

Front 16 x 6.50— 8" High Floation
Rear 27 x 9.50—15" High Floation

Tire pressure is from 7 to 10 psi.

NOTE

Tires are overinflated for shipment. Reduce tire pressure to 7 to 10 psi before using.

One hundred pounds (two 50 pound weights) can be attached to the rear wheels to increase rear traction for attachments such as the plow, snow blade, snow blower and rotary tiller.

HOOD

Hood pivoted at the front for easy access to engine and clutch. To open, release latches on each side of the hood. See Page 3.

AMMETER

The ammeter registers the rate of battery charge or discharge. The ammeter should register on the plus (+) side when the engine is running in the "Fast" position until the battery is completely charged. With a fully charged battery or with the engine idling the ammeter will not show a charge. See Figure 1.)

REAR WHEEL ADJUSTMENT

Each rear wheel is adjustable out 2 $\frac{3}{4}$ inches on the axle. See Figure 14.

NOTE

Do not over extend the hubs.

The rear hubs are extended to give greater stability when operating on hilly terrain.

To adjust, loosen the hex bolt and slide the rear hubs out.

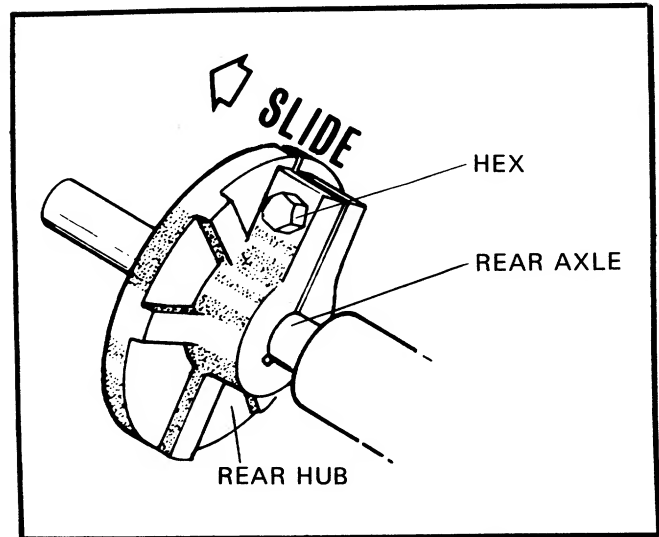


FIGURE 14. REAR HUBS

STEERING ASSEMBLY

Segment and pinion with 6:1 ratio for easy steering. Automotive type adjustable tie rods for toe-in adjustment. Cast iron pivoted front end.

SEAT

The seat is adjustable forward or backward by loosening the nut under the seat.

OPERATING INSTRUCTIONS

STARTING YOUR ENGINE

To get the feel of your tractor, operate it in a large open space until you become familiar with the controls.

1. Be sure you have read the manual to acquaint yourself with the controls.
2. Fill engine with oil and gasoline as outlined on page 6 of this manual.
3. Open fuel shut-off valve located under the gasoline tank. See Figure 15.

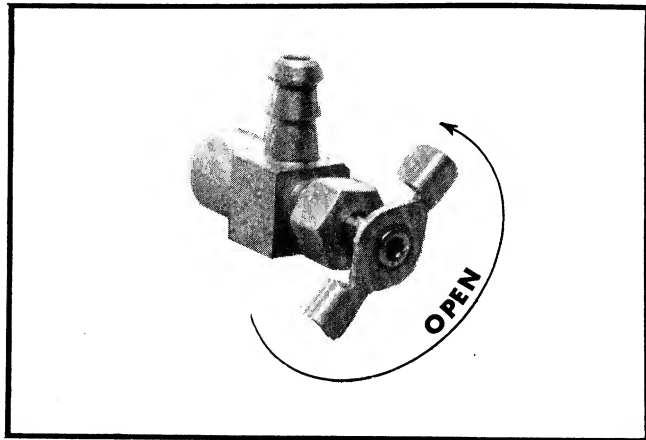


FIGURE 15. FUEL SHUT OFF VALVE

4. Attach the spark plug wire.
5. Place the Parking Brake in the START/PARK position. See Figure 10.
6. Be sure the Control Lever is in the NEUTRAL (N) position. See Figure 10.
7. Place the PTO Lever in the OFF position. See Figure 13.

NOTE

The engine will not start unless the PTO Lever is in the OFF position.

8. Place the Axle Range Lever in either the HIGH or LOW range.

9. Pull the choke knob all the way out.

10. Place the throttle control lever halfway between FAST and SLOW.

11. Turn the ignition key to the right to engage the starter. When the engine starts, move the choke knob in half way. After the engine warms up, push the choke knob in gradually until completely in.

NOTE

When the engine is hot, the choke may not be needed to start the engine.

CAUTION

Do NOT run starter for more than 30 seconds at a time. If engine does not start after several tries, place throttle control in FAST position, wait several minutes and try again without moving the throttle lever from the FAST position.

STOPPING YOUR ENGINE

To stop the engine, turn the ignition key to the left.

WARNING

Never leave the ignition key in the tractor when not in use to prevent accidental starting.

Remove the spark plug wire from the spark plug when tractor is not in use to prevent accidental starting.

OPERATING THE TRACTOR

1. Place the throttle control in the FAST position.

NOTE

The engine should be run in the FAST position to obtain the maximum efficiency from your tractor.

2. While holding the brake pedal down with your right foot, move the parking brake into the DRIVE position.
3. Release the brake and move the control lever into either the FORWARD (F) or REVERSE (R) position.

NOTE

To increase rear wheel torque (pulling power) move control lever towards the NEUTRAL position. The tractor responds similar to shifting to a lower gear with a gear type transmissison.

The control lever can be used for dynamic braking (to hold back the unit) when going down hill or when using rotary tiller by moving the lever towards NEUTRAL position. Additional braking can be obtained by moving control lever gradually into the direction opposite of your direction of travel.

MAINTENANCE

HYDROSTATIC

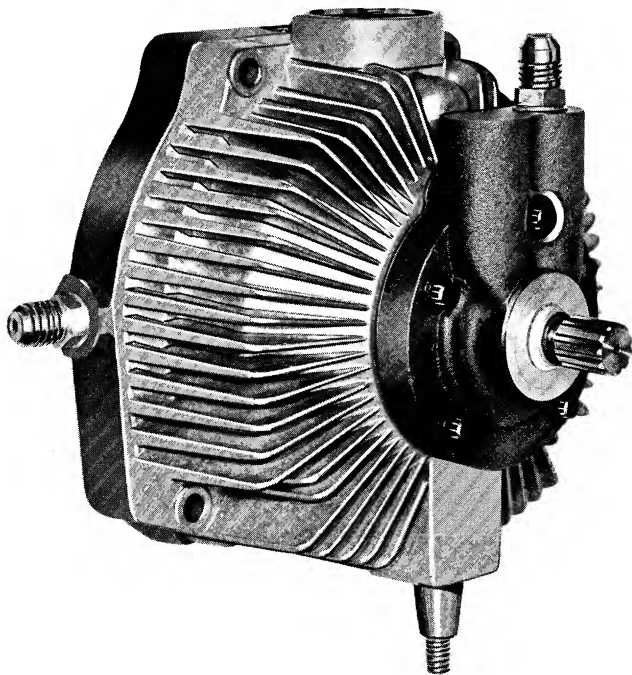


FIGURE 16. HYDROSTATIC

OIL LEVEL — The oil level should be checked after every eight (8) hours of operation.

NOTE: CLEAN THE AREA AROUND THE OIL FILL CLEAN.

TYPE OIL—Use Type F Automatic Transmission oil. Capacity five (5) quarts.

NOTE

Only check the oil level when the transmission is cold.

See the Lubrication Section of this manual on page 17 for instructions on how to check the hydrostatic oil level.

OIL FILTER—A replaceable oil filter is located under the left hand side of the frame.

It can be removed by turning it counter-clockwise by hand. Use Fram filter number PH-16 or order through your dealer under part number 727-162.

OIL FILTER CHANGING:

Homeowners—once a year or 200 operating hours.
Industrial or Commercial—once every two months.

COOLING

Proper fan cooling is essential to both performance and life of the transmission. The transaxle exterior should be free of dirt, oil and grass, particularly the finned area behind the fan.

TROUBLESHOOTING

NOTE

Normal repairs, such as replacing hoses, fittings, lift valves, etc., can be repaired the same as normal hydraulic systems.

After carefully checking the tractor, using the following troubleshooting section of this manual, it is determined that the hydrostatic is defective, order a new unit which will be charged to you. Return the defective unit. It will be tested at the factory to verify its failure. If the unit is proved to be defective, credit for the returned unit will be issued.

To perform a temporary power check, carefully "square off" or align both front wheels against a solid wall. With both front tires firmly against this wall place the throttle control in the FAST position and gradually move the Control Lever forward slowly until the tires spin.

This is only a temporary procedure to aid in quickly checking out general engine and axle performance. However, a few tries are usually adequate to allow an experienced mechanic to observe general engine performance, such as engine miss, carburetor adjustment, etc.

If the engine performance appears to be normal, a thorough inspection should be made of the transmission, axle range selector lever, input drive line and control linkage components. Proceed as follows:

AXLE—Determine if axle is in satisfactory working condition. Determine if range selector is in full engaged position. (HIGH or LOW range.)

CONTROL LINKAGES—Adjust and secure linkages leading from transmission to control lever. Replace worn parts to minimize free movement of linkages. Do not overstroke. The maximum movement of the control linkage in either direction is set at the factory. Any modifications to overstroke the control linkage will eventually result in permanent damage to the transmission.

If the oil level in the reservoir is below normal level, inspect the entire transmission and axle for oil leaks and isolate.

CAUTION

If inspection is made while the tractor is blocked up and the engine is running, BEWARE OF THE SPINNING FAN.

LOSS OF POWER OUTPUT

- 1) Input power supply inadequate
- 2) Control linkages out of adjustment

- 3) Oil level in reservoir below normal continuously (see loss of oil paragraph)
- 4) Intake oil line fittings loose (at axle and at charge pump intake)
- 5) Output pinion gear defective or missing
- 6) Axle—defective range selector lever not properly engaged (high or low range)
- 7) Transmission—defective

TRANSMISSION OVERHEATING

- 1) Fanned area of transmission clogged with grass and dirt
- 2) Defective cooling fan
 - a) Fan blade missing
 - b) Loose fan
 - c) Improper fan blade pitch angle (due to damage)
- 3) Oil level in rear axle below normal
- 4) Working loads beyond capabilities of transmission (improper selection of axle range)
- 5) Transmission defective

LOSS OF OIL (ISOLATE)

- 1) Loose oil lines or defective oil lines
- 2) Loose oil filter
- 3) Input shaft oil seal (oil leak visible)
- 4) Control shaft oil seal (oil leak visible)
- 5) Defective or missing "O" ring on oil inlet adapter of transmission (oil leak visible)
- 7) Leaking lift valve
- 8) Leaking lift cylinder
- 9) Loose hydraulic fittings

AUXILIARY LIFT VALVE AND CYLINDER WILL NOT LIFT OR HOLD

- 1) Defective or leaking lift valve
- 2) Leaking cylinder
- 3) Defective hydraulic hoses
- 4) Loose hydraulic fittings

WARNING
Be sure to remove the plastic plug on the rear of the hydraulic unit if it is replaced

CONTROL LEVER ADJUSTMENT

If the tractor has a tendency to creep when the control lever is in neutral (N), an adjustment should be made. See Figure 17.

- Step 1. Loosen the four jam nuts on the control rod and back them off about $\frac{1}{4}$ in. on each side of the ferrule.
- Step 2. Depress the brake pedal and pull the parking brake into the START/PARK position.
- Step 3. Be sure the control lever is in the neutral position.
- Step 4. Tighten the four jam nuts and test the tractor.

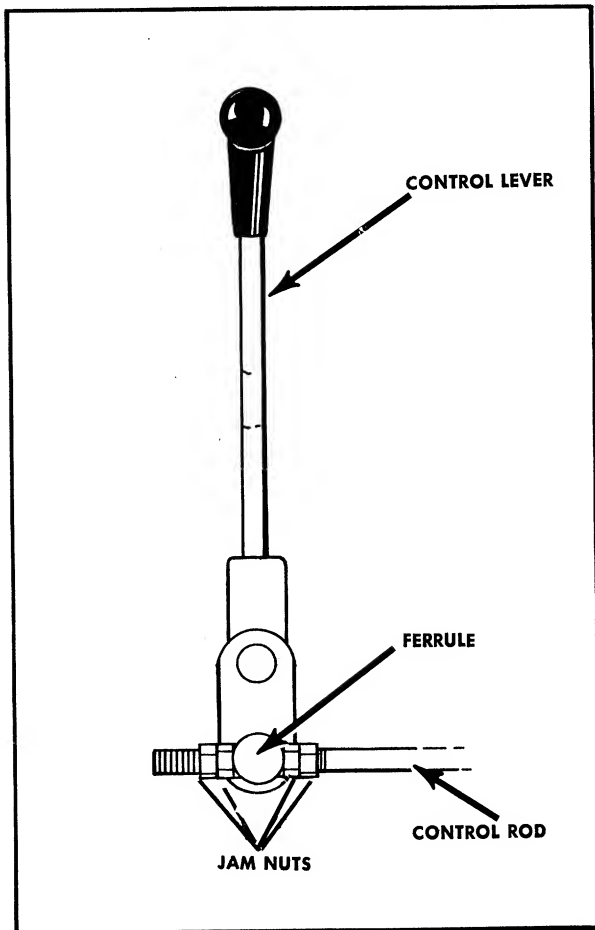


FIGURE 17. CONTROL LEVER ADJUSTMENT

REAR PTO BELT REMOVAL

- Step 1. Place the PTO Lever in the OFF position. See Figure 13.
- Step 2. Remove the lower belt guard. See Figure 18.
- Step 3. Loosen the set screw in the universal joint where it attaches to the crankshaft of the engine.

- Step 4. Drive out the roll pin in the universal joint.
- Step 5. Slide the universal joint back towards the rear of the tractor.
- Step 6. Remove the PTO belts from the two pulleys and idler.
- Step 7. Reassemble with new belts.

NOTE

Always replace with matched belts.

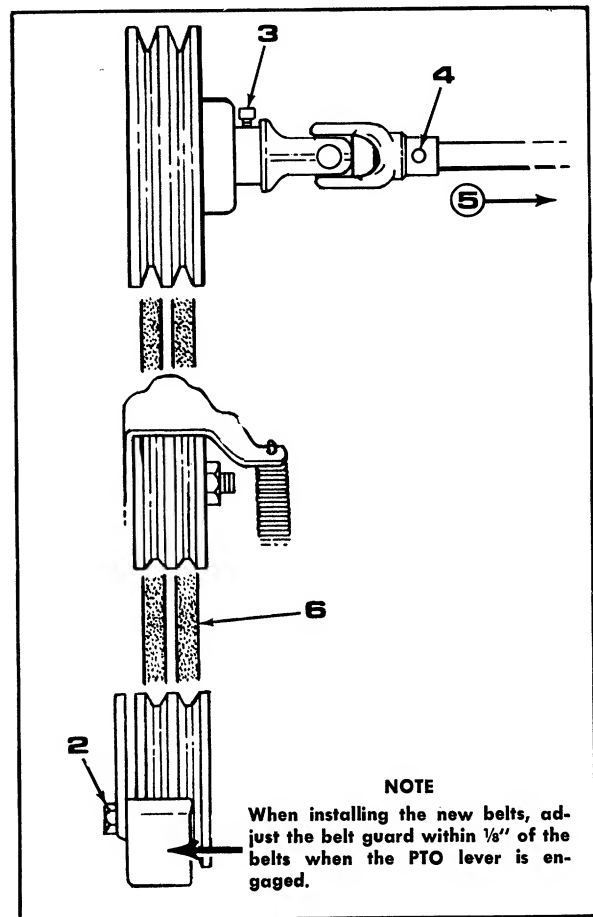


FIGURE 18. PTO BELT REMOVE

REAR POWER TAKE OFF ADJUSTMENT

If the PTO creeps when it is in the disengaged position the belt should be adjusted. To adjust:

- Step 1. Set the engagement lever in the ENGAGED position.
- Step 2. Remove the cotter-pin on the PTO adjusting rod.
- Step 3. Remove the rod from the bracket and unscrew it 3 complete turns and insert back into the bracket.
- Step 4. Replace the cotter-pin. See Figure 19.

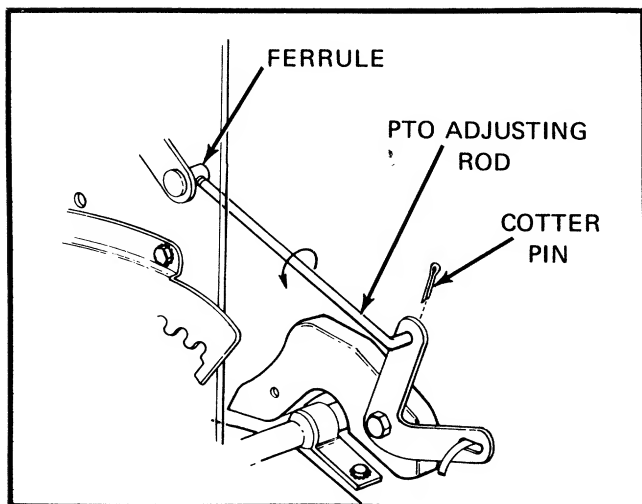


FIGURE 19. REAR PTO ADJUSTMENT

TIE ROD ADJUSTMENT (TOE-IN)

The front wheels should be approximately parallel. See Figure 20.

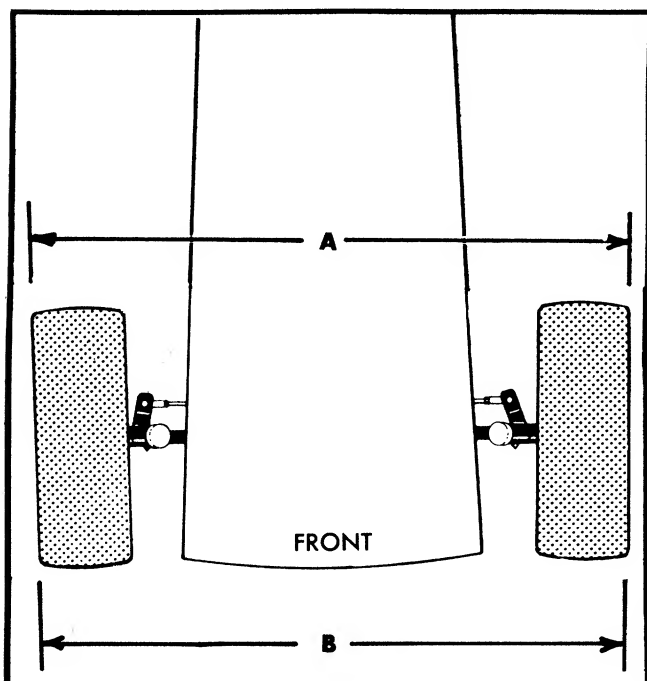


FIGURE 20. TOE-IN ADJUSTMENT

To adjust the toe-in, loosen the hex jam nut, remove the elastic locknut, lift the tie rod end out of the hole in the steering arm and screw the tie-rod end in or out to make your adjustment. See Figure 21.

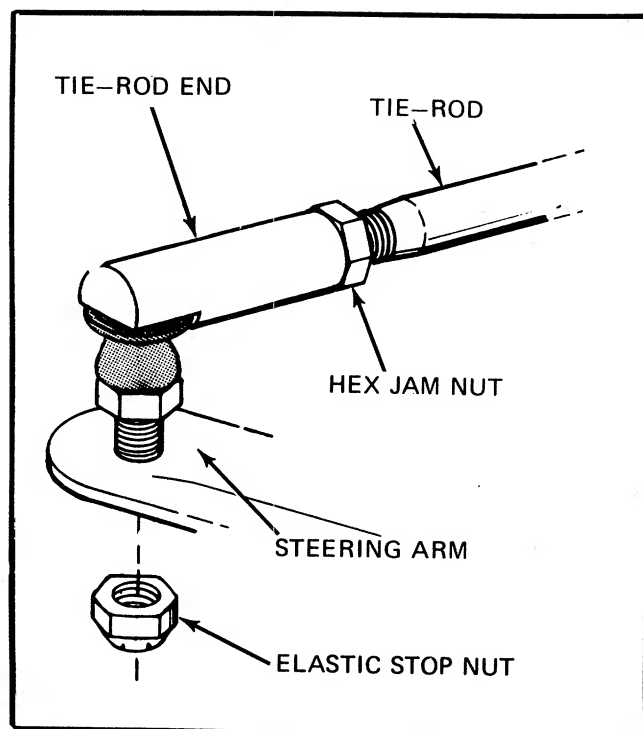


FIGURE 21. TIE ROD END

Use a tape measure or a yard stick and measure the distance A and B on the front wheels. The difference between A and B should be less than $\frac{1}{8}$ of an inch.

BRAKE ADJUSTMENT

Step 1. With the Clutch-Brake Pedal released, the pins on the disc brake should be in the bottom of the "V" on the cam arm as shown in Figure 22.

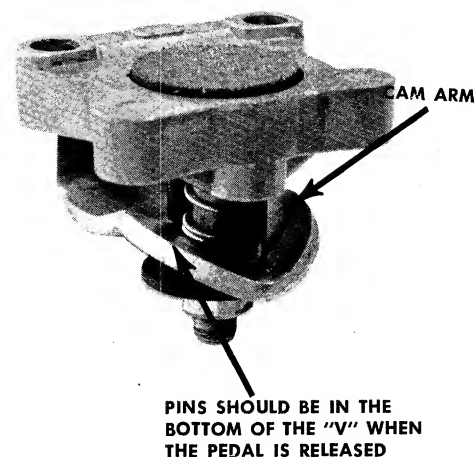


FIGURE 22. PEDAL ADJUSTMENT

Step 2. Adjust the pedal adjustment nut in Figure 23 if necessary.

NOTE

Once the pedal adjustment is made it is not necessary to adjust it every time you adjust the brake.

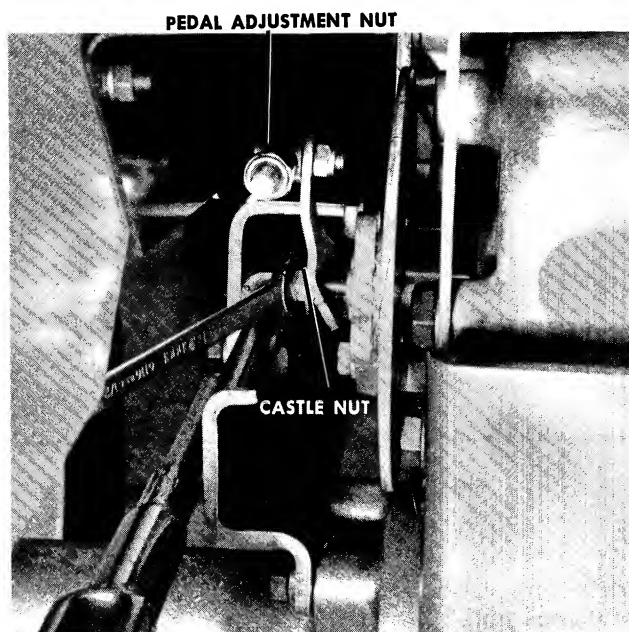


FIGURE 23. BRAKE ADJUSTMENT

Step 3. Remove the cotter pin from the castle nut. See Figure 23.

Step 4. Tighten the castle nut $\frac{1}{4}$ turn and test the brakes. Repeat if necessary.

BATTERY CARE

BATTERY FAILURE—Many times new batteries are returned for charging within a few days or a week after sale. Before returning the battery to the dealer who sold you the tractor, make these following checks:

1. Was the battery fully charged when installed? The dry-pack battery should have been placed on a charger and the specific gravity of the battery should read 1.265 to 1.275 before it was installed in the tractor.
2. Were the battery terminals clean, greased and properly tightened when the battery was installed?

3. Batteries are usually involved in ANY starting failure, however, insufficient hours of driving, worn cables, trouble in the electrical system, corroded connections, slipping drive belt can cause a battery to become discharged without the battery being a fault.

SERVICING YOUR BATTERY

It is alright to use drinking water in your battery, excluding mineral water.

Adding water to a battery cell will lower the specific gravity of the electrolyte. Water should not be added unless the tractor is going to be run immediately during freezing weather.

Maintain electrolyte level in the battery to the level indicated on the top of the battery.

Keep the terminals clean and coated with grease.

BATTERY STORAGE

If your tractor is to be stored during an off-season, the battery should be removed from the tractor, placed in a charger until the specific gravity reads 1.265 to 1.275 and stored at approximately 72°F. Batteries should not be placed directly on cement as this will drain the battery. Recharge to bring the specific gravity to normal before placing it in the tractor after storage.

BATTERY REPLACEMENT

Your battery is a standard automotive type battery and replacements can be purchased locally through your local dealer under part number 725-130.

SPECIFICATIONS

45 Amp. Hours at 20 hours.
9 plates per cell.
Splash Proof Vents
Round automotive type terminals.
Size: 9 X 6 $\frac{3}{4}$ X 7 $\frac{1}{2}$ inches.

NOTE

Size may vary slightly between different makes of batteries. Be sure it will fit in the tractor battery case.

Your tractor has been engineered to give you years of trouble-free service, however, by following these simple lubrication procedures, you can greatly extend the life of your tractor. (Refer to Figure 27)

1 ENGINE LUBRICATION

DO NOT MIX OIL WITH GASOLINE

OIL RECOMMENDATIONS

WINTER
(Below 40° F.)
Use SAE 5W-20

SUMMER
(Above 40° F.)
Use SAE 30

Any high quality detergent oil having the American Petroleum Institute classification "For Service MS" can be used in your Briggs & Stratton engine. Detergent oils keep the engine cleaner and retard the formation of gum and varnish deposits.

Check before starting and after every 5 hours of operation. BE SURE OIL LEVEL IS MAINTAINED.

Change oil after first 5 hours of operation. Thereafter change oil every 25 hours of operation. Remove the oil drain plug. Drain oil while engine is warm. Remove oil filler cap or plug and refill with new oil. Replace oil filler cap or plug. Add oil regularly after each 5 hours of operation.

The above oil recommendations are the result of extensive testing. No special additives should be used.

2 HYDROSTATIC

The hydrostatic oil level is checked by the dipstick located on the rear axle. To check the oil level, remove the tool box (see Figure 24) and remove the square head plug that has the dipstick attached to it (see Figure 25).

NOTE: CLEAN THE AREA AROUND THE OIL FILL CLEAN.

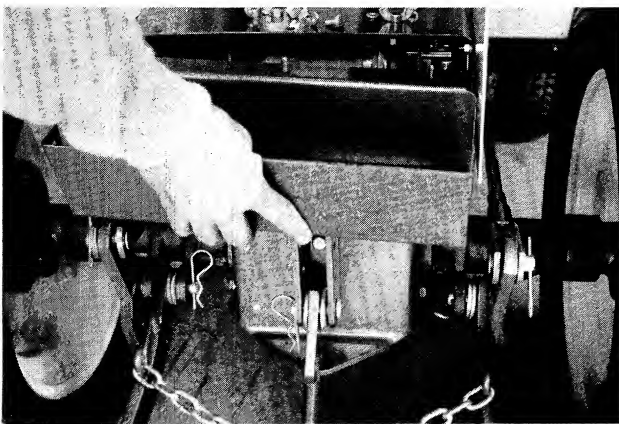


FIGURE 24. TOOL BOX

**REMOVE TOOL TRAY
TO CHECK OIL IN AXLE**

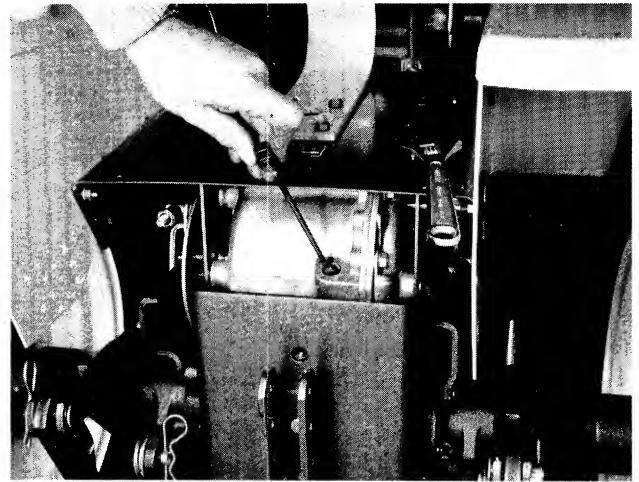


FIGURE 25. OIL DIPSTICK

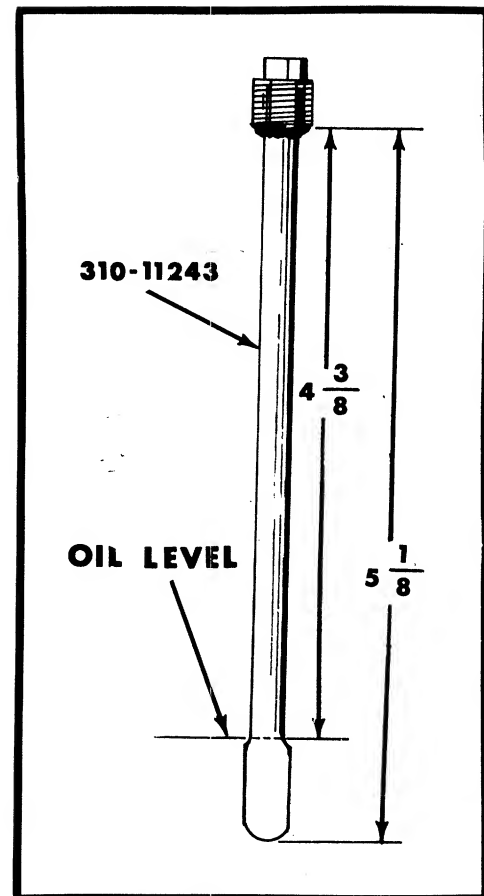


FIGURE 26. OIL DIPSTICK

The oil level should be maintained between the oil level mark and the bottom of the dipstick. See Figure 26.

OIL LEVEL — The oil level should be checked after every eight (8) hours of operation. Change oil every 200 hours or once a season.

TYPE OIL—Use Type F Automatic Transmission oil. Capacity five (5) quarts.

NOTE

Only check the oil level when the transmission is cold.

The following grease fittings should be lubricated every 25 hours with an automotive multi-purpose grease:

3 POWER TAKE OFF (REAR)

1 fitting—center of tractor

4 DECK PIVOT BAR

2 fittings—one each side of the tractor

5 STEERING GEAR

1 fitting—center of tractor

6 AXLE PIVOT

1 fitting—center of tractor

7 KING PIN

2 fittings—one each side of the tractor

8 WHEEL BEARINGS

2 fittings—one each side of the tractor

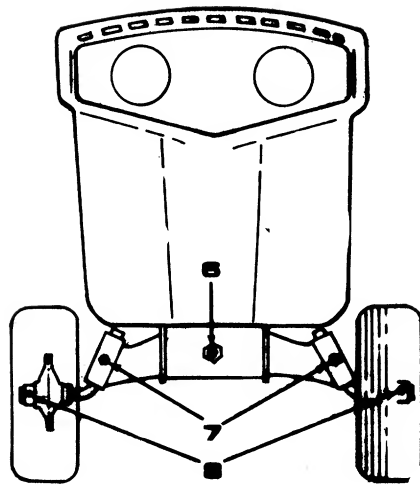
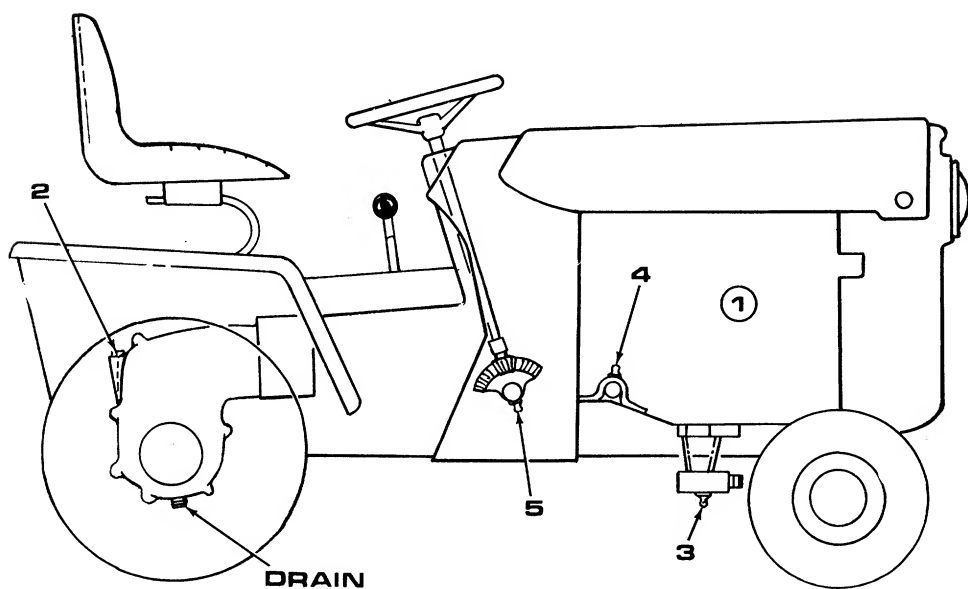
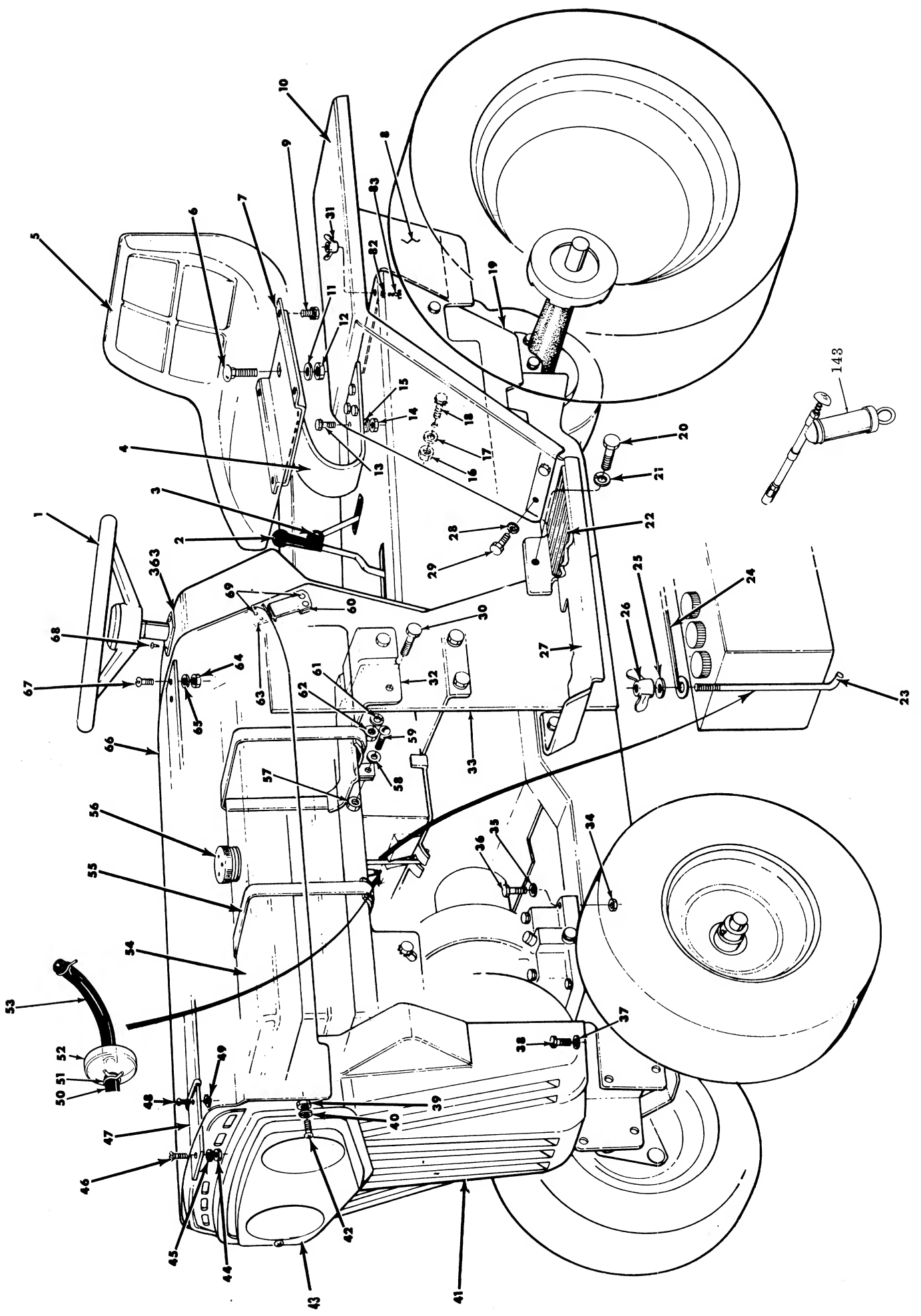
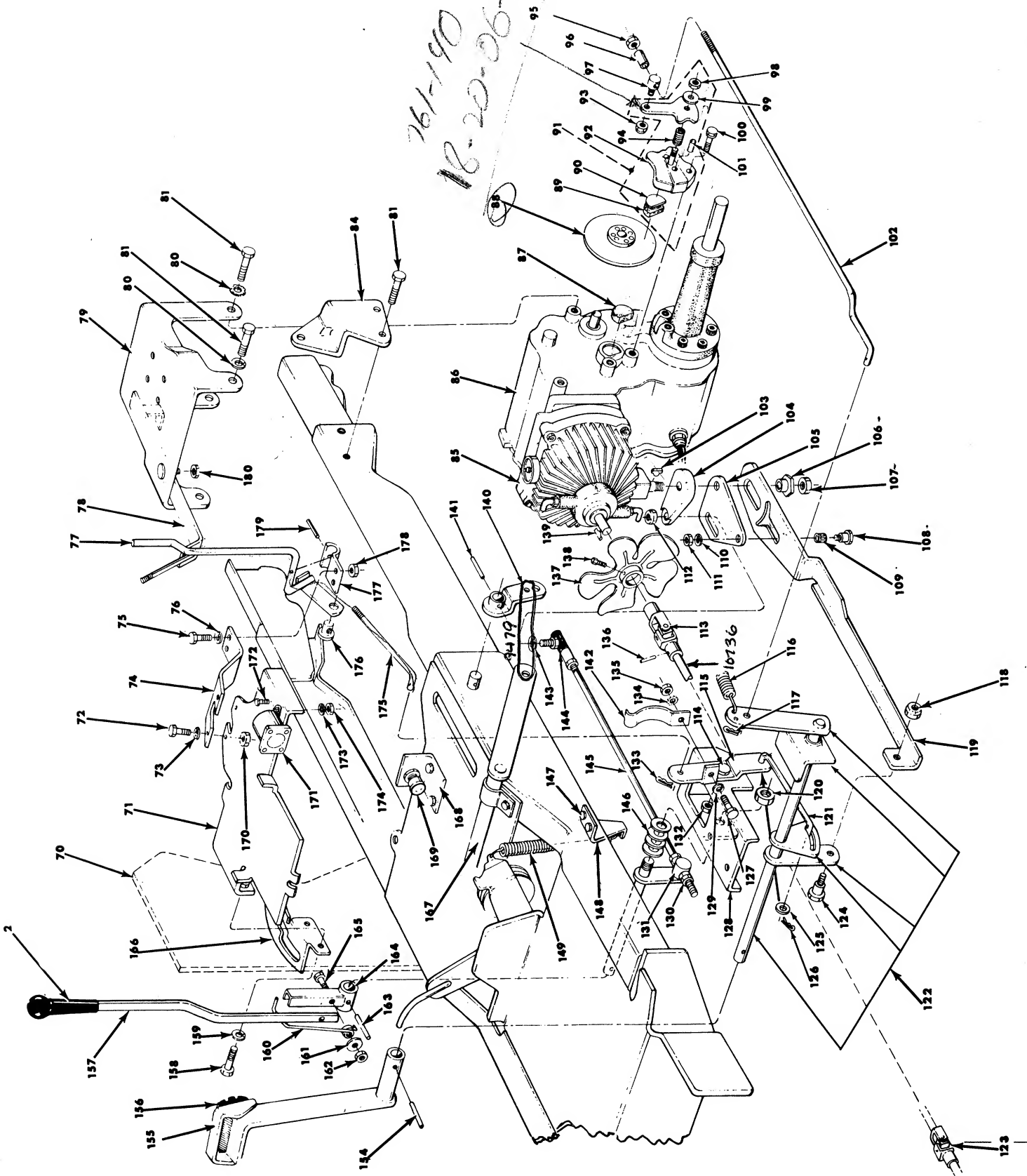


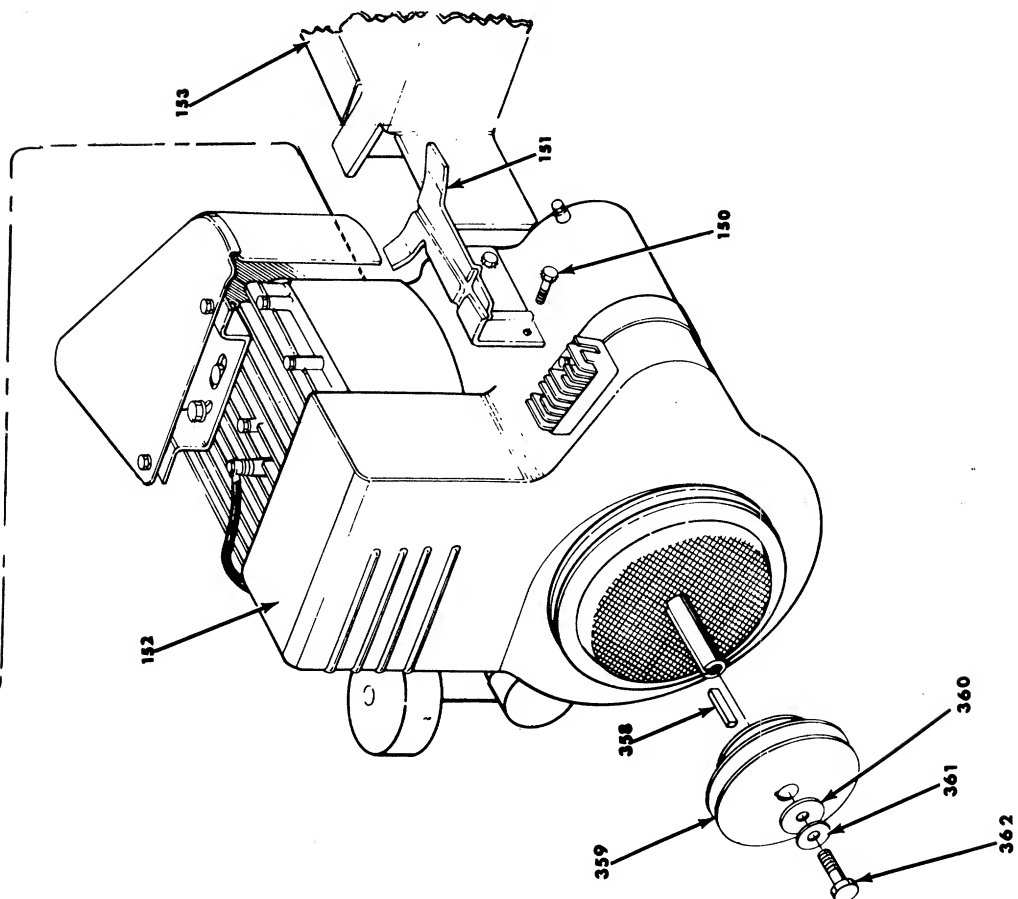
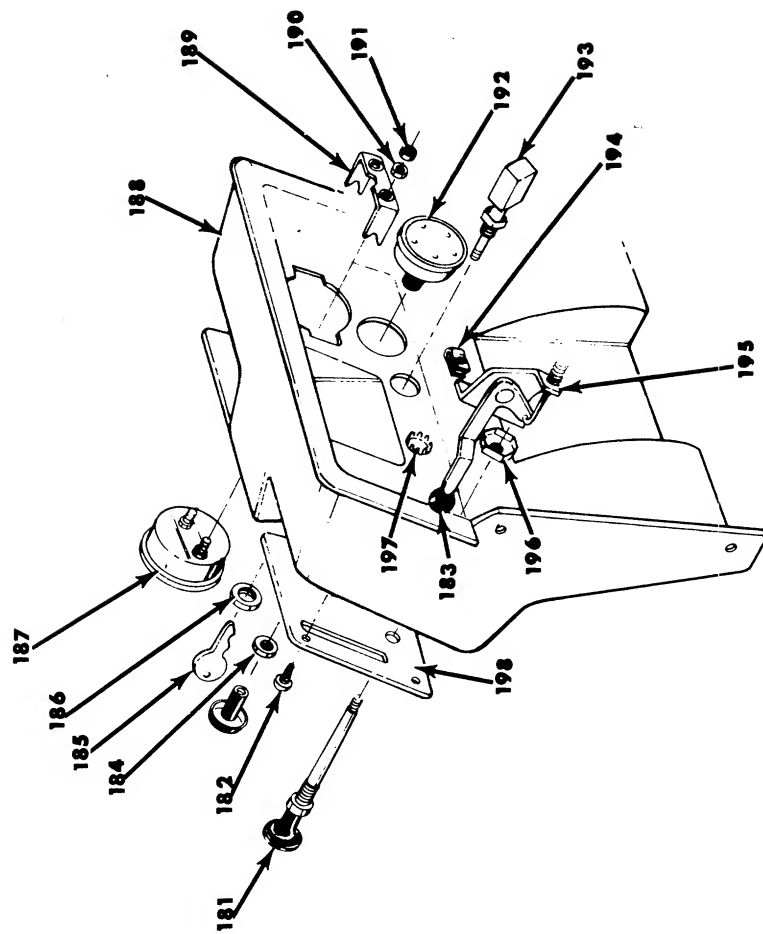
FIGURE 27. LUBRICATION CHART



761-190
18-20-06-0000

2

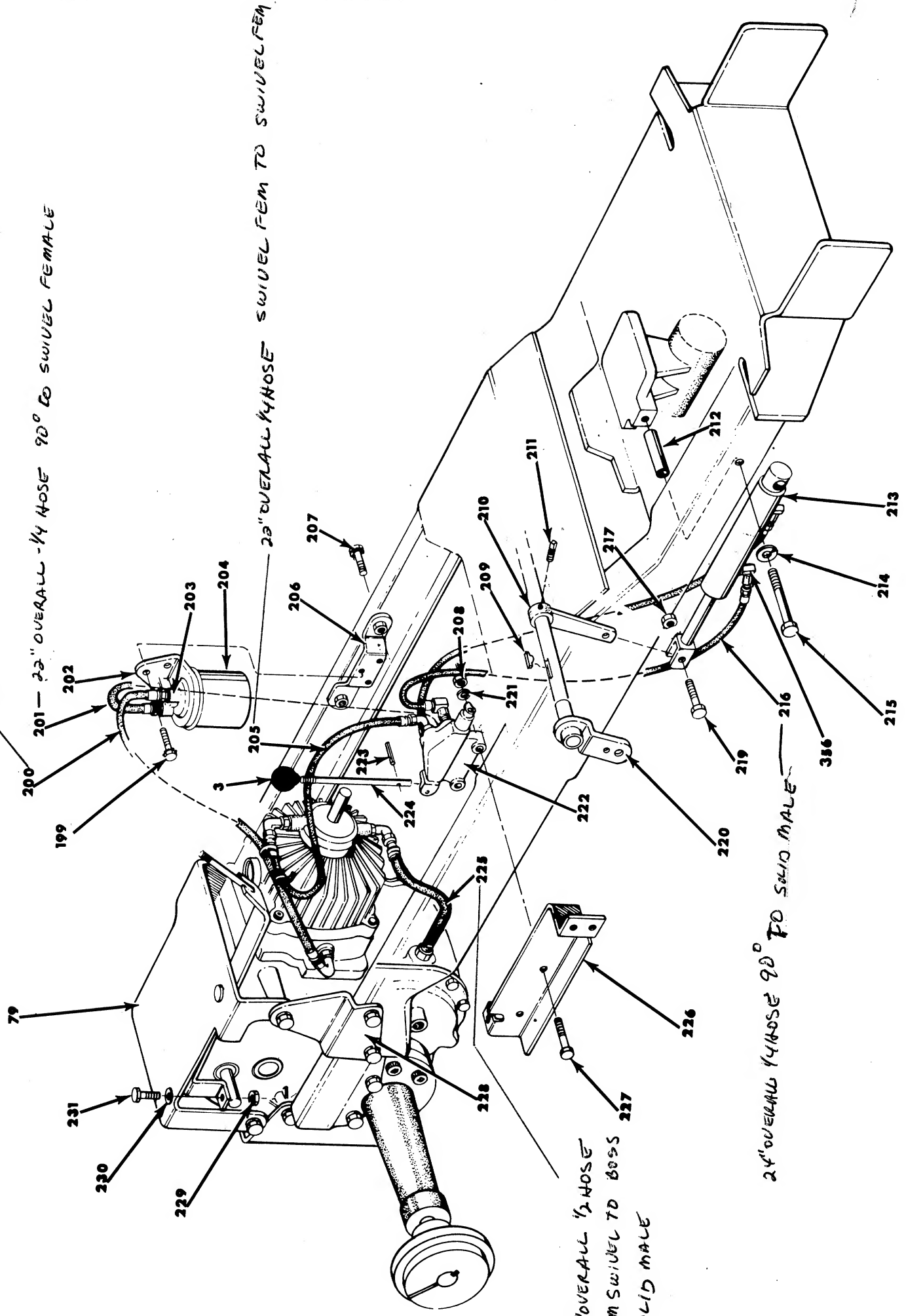


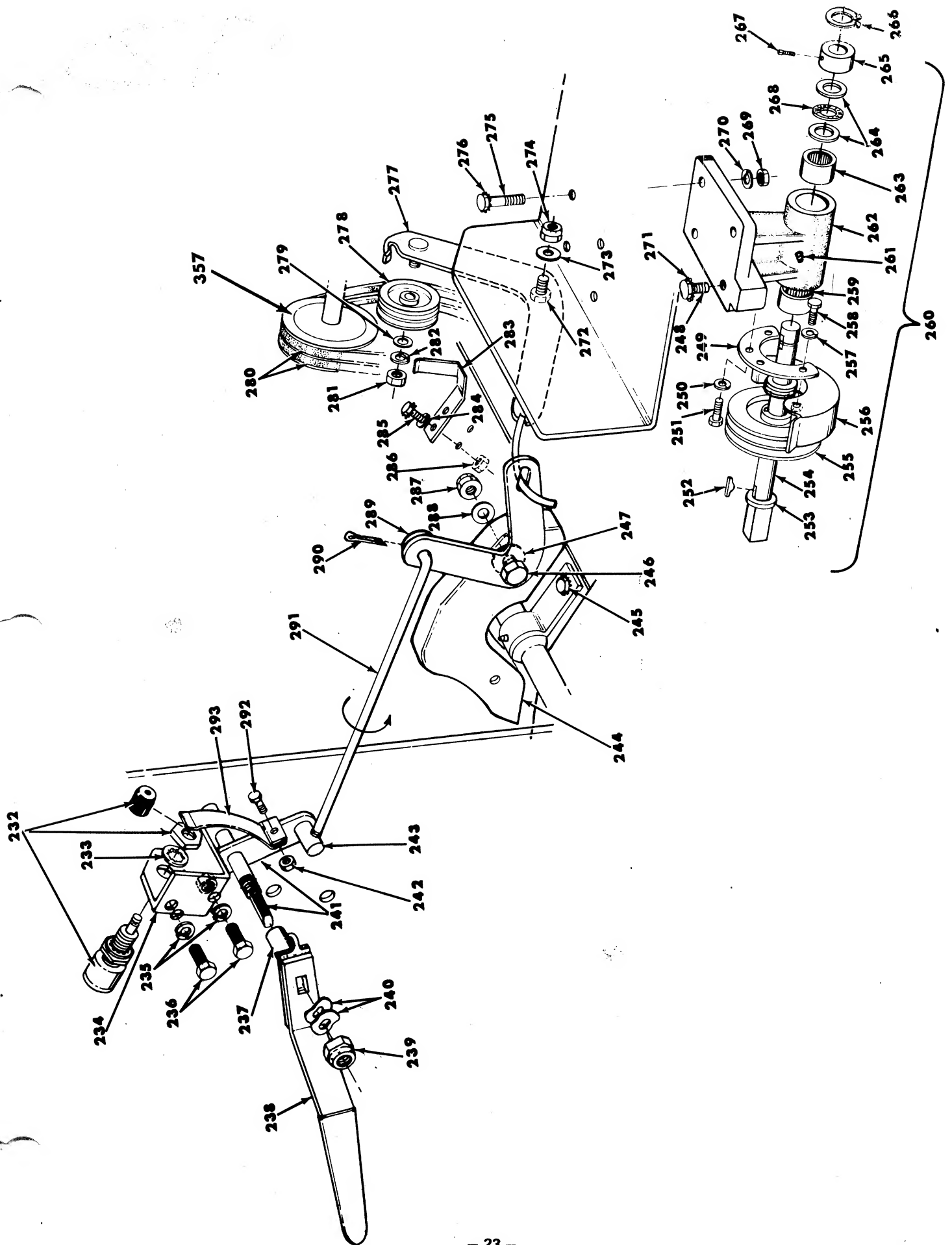


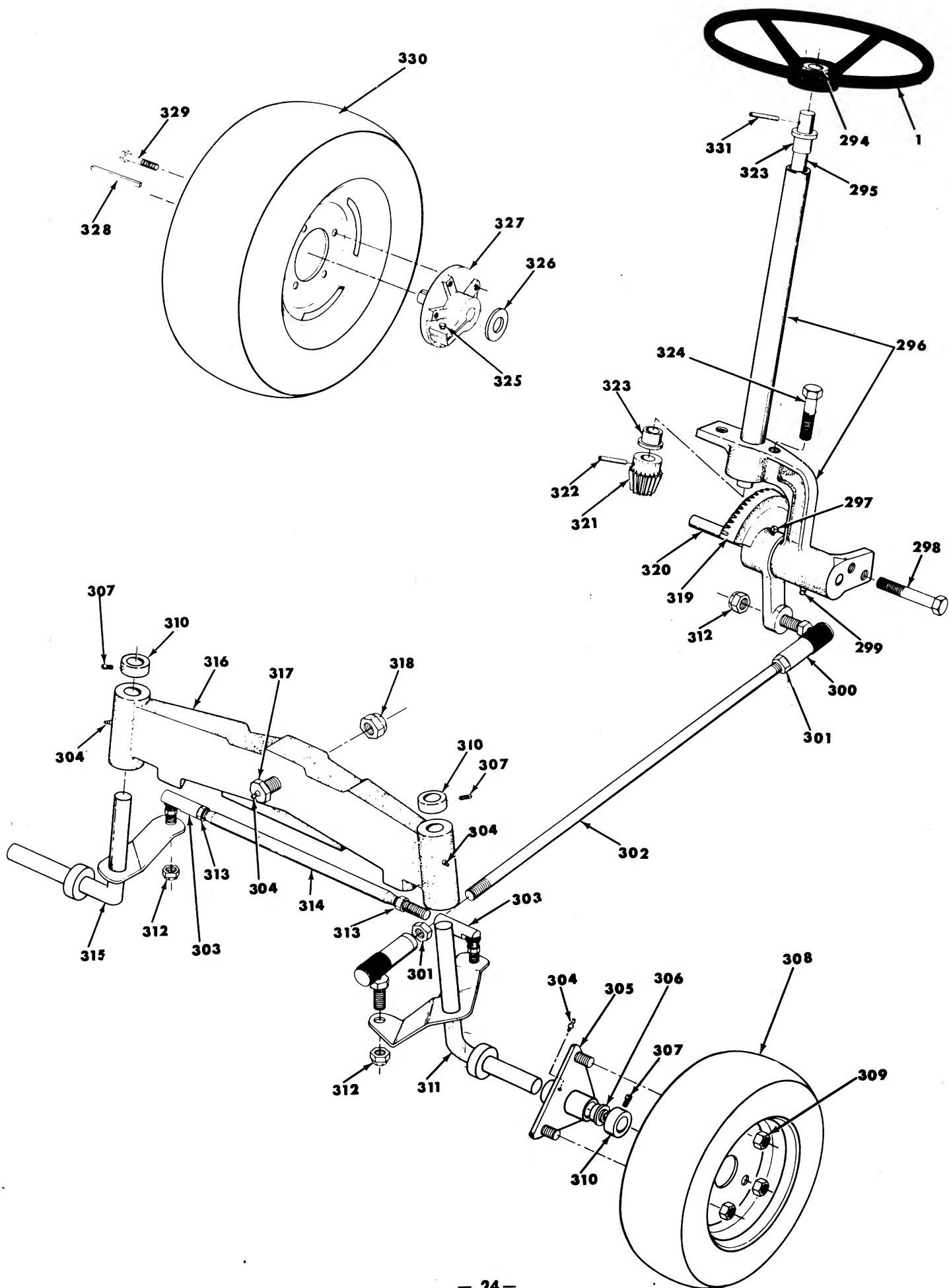
24" OVERALL 3/8 SWIVEL FEM TO SOLID MALE

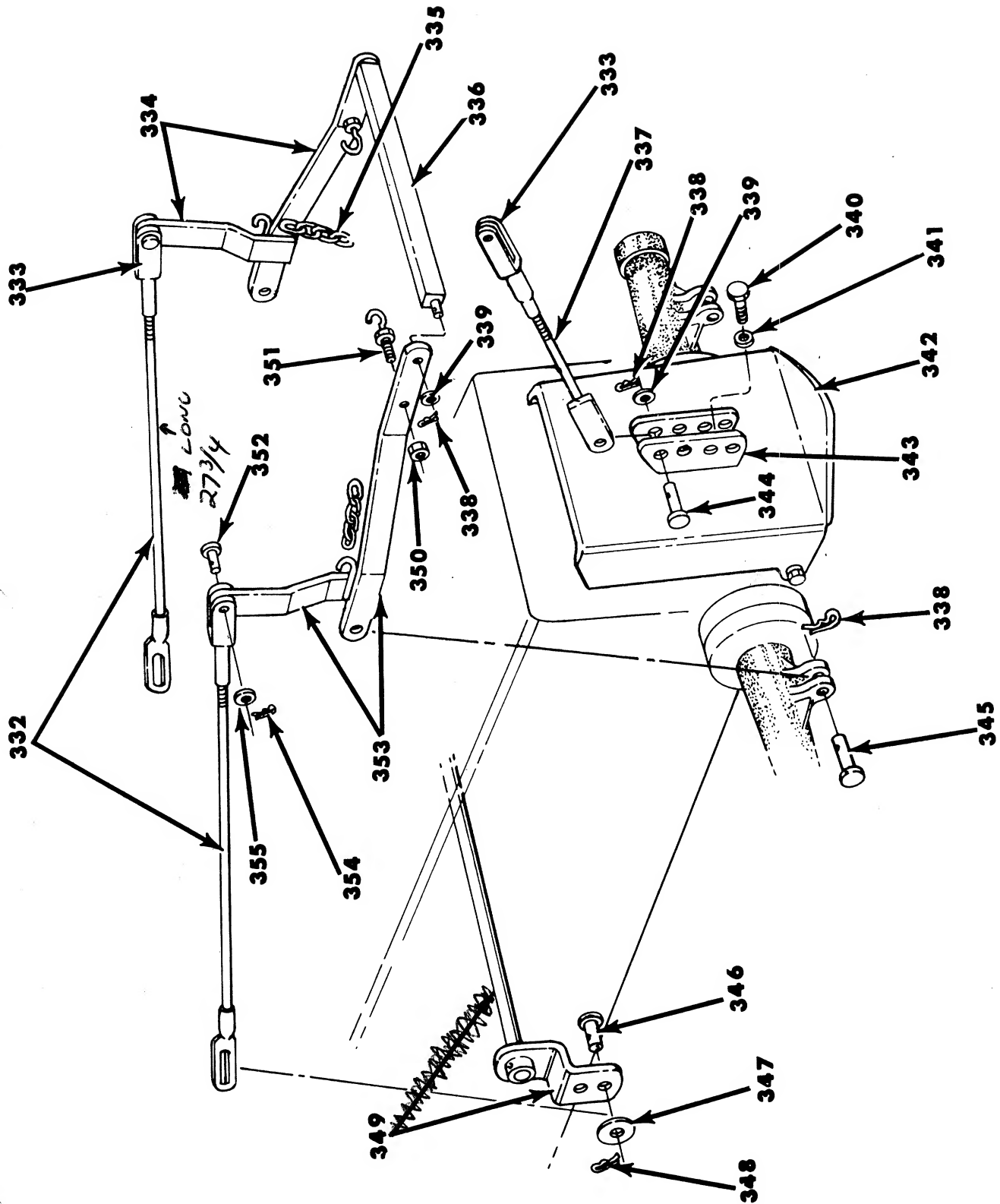
201-23" OVERALL 1/4 HOSE 90° TO SWIVEL FEMALE

23" OVERALL 1/4 HOSE SWIVEL FEM TO SWIVEL FEM









PARTS LIST FOR 141-990 TRACTOR

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
1	723-250	Steering Wheel	78	438-10713	Shift Lever Assembly
2	720-143	Grip	79	438-10675	Seat Bracket Assembly
3	722-116	Gear Shift Knob	80	736-114	Internal Lockwasher 1/2" Scr.*
4	723-146	Seat Spring	81	710-490	Hex Hd. Cap Scr. 1/2-13 x 1" Lg.*
5	757-203	Seat	82	736-222	External Lockwasher 1/4" Scr.*
6	710-385	Carriage Bolt 1/2-13 x 1" Lg.	83	710-289	Hex Hd. Cap Scr. 1/4-20 x 1/2" Lg.*
7	348-10807	Seat Bracket	84	438-10678	Axle Support—L.H.
8	438-10927	Tool Tray Assembly	85	717-168	Hydrostatic Unit—Complete
9	710-209	Sems Hex Hd. Cap Scr. 3/8-16 x 3/8" Lg.	86	—	Transaxle—Complete
10	312-10739	Fender Assembly—L. H.	87	15-1154-0163	Friction Pad (Glued In Transaxle Housing)
	312-10740	Fender Assembly—R. H. (Not Shown)	88	723-272	Brake Disc Assembly
11	736-921	Spring Lockwasher 1/2-Screw	89	15-1154-0163	Friction Pad
12	712-204	Elastic Stopnut 1/2-13 Thd.	90	03-1090-0001	Back-Up Disc
13	710-198	Sems Hex Hd. Cap Scr. 5/16-18 x 3/4" Lg.*	91	723-269	Caliper Disc Brake Assembly
14	712-267	Hex Nut 5/16-18 Thd.*	92	12-1041-0000	Casting Carrier
15	736-170	Spring Lockwasher 5/16 Screw*	93	712-429	Elastic Stop Nut 5/16-18 Thd.
16	710-289	Hex Hd. Cap Screw 1/4-20 x 1/2" Lg.*	94	06-1029-0000	Spring
17	736-329	Spring Lockwasher 1/4" Scr.*	95	712-430	Elastic Stopnut 3/8-16 Thd.
18	712-287	Hex Nut 1/4-20 Thd.*	96	750-160	Spacer (Brake Rod)
19	438-10743	Rear Frame Cover	97	711-471	Ferrule (Brake Rod)
20	710-216	Hex Hd. Cap Screw 3/8-16 x 3/4" Lg.*	98	02-1011-0000	Nut
21	736-169	Spring Lockwasher 3/8 Scr.*		05-1863-0000	Int. Hair Pin
22	723-215	Foot Pad	99	03-1030-0000	Washer
23	711-284	Battery Hold Down Stud	100	710-216	Hex Hd. Cap Scr. 3/8-16 x 3/4" Lg.*
24	711-287	Battery Hold Down Rod	101	05-1033-0000	Push Pin
25	736-173	Flat Washer	102	711-475	Brake Rod
26	712-109	Wing Nut 1/4-20 Thd.*	103	714-131	Hi Pro Key #504
27	438-10745	Foot Pad Assembly—L.H.	104	438-10772	Control Lever
	438-10744	Foot Pad Assembly—R.H. (Not Shown)	105	438-10712	Control Adjustment Plate
28	736-222	External Lockwasher 1/4" Scr.*	106	711-473	Slide Nut
29	712-287	Hex Nut 1/4-20 Thd.*	107	712-375	Center Locknut 3/8-16 Thd.
30	710-216	Hex Hd. Cap Screw 3/8-16 x 3/4" Lg.*	108	710-491	Shoulder Bolt 5/16 Dia. x 1/2" Lg.
31	712-109	Wing Nut 1/4-20 Thd.*	109	741-154	Needle Bearing
32	438-10726	Gas Tank Bracket—Rear	110	736-329	Spring Lockwasher 1/4" Scr.*
33	438-10685	Side Plate—L.H.	111	712-107	Hex Nut 1/4-20 Thd.*
34	712-798	Hex Nut 3/8-16 Thd.*	112	712-116	Elastic Stop Nut 3/8-24 Thd.*
35	736-169	Spring Lockwasher 3/8 Scr.*	113	717-171	Universal Joint (Dr. Shaft to Hydrostat)
36	710-347	Hex Hd. Cap Scr. 3/8-16 x 1 1/4" Lg.*	114	710-373	Shoulder Bolt—Special
37	736-169	Spring Lockwasher 3/8 Scr.*	115	438-10709	Parking Brake Crank
38	710-253	Hex Hd. Cap Scr. 3/8-16 x 1" Lg.*	116	732-121	Brake Return Spring
39	712-287	Hex Nut 1/4-20 Thd.*	117	714-101	Int. Hairpin Cotter
40	736-329	Spring Lockwasher 1/4" Scr.*	118	712-429	Elastic Stopnut 5/16-18 Thd.
41	719-139	Grille	119	438-10711	Control Slide
42	710-346	Oval Hd. Scr. 1/4-20 x 1 1/2" Lg.*	120	712-923	Center Locknut 3/8-18 Thd.
43	438-9516	Bezel Head Lamp	121	310-10698	Parking Brake Rod—Front
44	712-287	Hex Nut 1/4-20 Thd.*	122	438-10727	Brake Shaft Assembly
45	736-329	Spring Lockwasher 1/4" Scr.*	123	717-170	Universal Joint (Dr. Shaft to Engine)
46	710-350	Counter Sunk Flat Hd. Scr. 1/4-20 x 1" Lg.	124	711-118	Shoulder Bolt—Special
47	438-9576	Grille Brace	125	736-300	Flat Washer
48	710-473	Truss Hd. Mach. Screw #10-24 x 1/2" Lg.*	126	714-109	Cotter Pin*
49	712-425	Square Nut #10-24 Thd.*	127	710-289	Sems Hex Hd. Cap Scr. 1/4-20 x 1/2" Lg.*
50	723-158	Gas Hose 1/2" O.D. x 1/4" I.D. 10 1/2" Lg.	128	438-10699	Control Bracket Assembly
51	723-157	Gas Hose Clamp 1/2" O.D.	129	—	Part of Ref. No. 127
52	723-154	Gas Line Filter	130	712-711	Hex Jam Nut 3/8-24 Thd.
53	723-247	Gas Hose 1/2" O.D. x 1/4" I.D. 3" Lg.	131	711-471	Ferrule (Speed Control)
54	723-249	Gas Tank	132	712-430	Elastic Stopnut 3/8-16 Thd.
55	348-10852	Gas Tank Strap	133	714-101	Int. Hair Pin Cotter
56	723-155	Gas Gauge	134	736-329	Spring Lockwasher 1/4" Scr.*
57	712-287	Hex Nut 1/4-20 Thd.*	135	712-107	Hex Nut 1/4-20 Thd.*
58	736-329	Spring Lockwasher 1/4" Scr.*	136	715-114	Spirol Pin 1/4" Dia. x 1 1/2" Lg.*
59	710-279	Fillister Hd. Scr. 1/4-20 x 1 3/4" Lg.*	137	310-10695	Fan Assembly
60	723-186	Hood Latch	138	710-356	Sq. Hd. Set Screw 5/16-18 x 1/2" Lg.*
61	736-169	Spring Lockwasher 3/8" Scr.*	139	714-388	Hi Pro Key #506
62	712-798	Hex Nut 3/8-16 Thd.*	140	438-10716	Lift Arm Assembly
63	438-9575	Hood Catch	141	715-107	Spirol Pin 5/16 Dia. 1 3/8" Lg.*
64	712-287	Hex Nut 1/4-20 Thd.*	142	310-9521	Height Adjustment Spring
65	736-329	Spring Lockwasher 1/4" Scr.*	143	736-300	Flat Washer*
66	312-9525	Hood	144	723-156	Tie Rod End
67	710-166	Truss Hd. Machine Scr. 1/4-20 x 1 1/8" Lg.*	145	710-454	Control Rod
68	710-473	Truss Hd. Mach. Screw #10-24 x 1/2" Lg.*	146	736-116	Washers (4)
69	728-111	Pop Rivet SD 4485	147	710-198	Sems Hex Hd. Cap Scr. 5/16-18 x 3/4" Lg.*
70	438-10684	Side Plate—R.H.	148	438-9438	P.T.O. Spring Bracket
71	438-10671	Axle Mounting Bracket Ass'y.—R.H.	149	732-155	Extension Spring
72	710-253	Hex Hd. Cap Scr. 3/8-16 x 1" Lg.*	150	710-198	Sems Hex Hd. Cap Scr. 5/16-18 x 3/4" Lg.*
73	736-169	Spring Lockwasher 3/8 Scr.*	151	438-10725	Gas Tank Bracket—Front
74	438-10683	Selector Lever Support Bracket	152	—	Engine
75	710-258	Hex Hd. Cap Scr. 1/4-20 x 3/8" Lg.*	153	438-10893	Frame Assembly—Complete
76	736-329	Spring Lockwasher 1/4" Scr.*	154	715-107	Spirol Pin 5/16" Dia. x 1 3/8" Lg.*
77	438-10692	Selector Lever Assembly	155	438-10714	Brake Pedal Assembly

PARTS LIST FOR TRACTOR (CONTINUED)

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
156	305-10614	Pedal Pad	235	736-329	Spring Lockwasher 1/4" Scr.*
157	438-10734	Control Lever	236	710-258	Hex Hd. Cap Scr. 1/4-20 x 3/8" Lg.*
158	710-216	Hex Hd. Cap Scr. 3/8-16 x 3/4" Lg.*	237	711-313	Sleeve
159	736-169	Spring Lockwasher 3/8 Scr.*	238	310-9439	P.T.O. Handle Assembly
160	723-231	Torsion Spring	239	712-204	Elastic Stopnut 1/2-13 Thd.*
161	736-463	Flat Washer 1/4" Screw*	240	736-182	Wave Washer
162	712-324	Elastic Locknut 1/4-20 Thd.	241	438-10688	P.T.O. Handle Shaft Assembly
163	715-107	Spirol Pin 5/16 Dia. x 1 1/2" Lg.*	242	712-107	Hex Center Locknut 1/4-20 Thd.*
164	438-10841	Handle Bracket Assembly	243	711-288	Ferrule
165	710-136	Hex Hd. Cap Scr. 1/4-20 x 1 1/4" Lg.*	244	438-10450	Clutch Yoke Pivot Bracket Assembly
166	438-10908	Control Index Bracket	245	710-198	Sems Hex Hd. Cap Screw 5/16-18 x 3/4" Lg.*
167	438-9457	Pivot Bar Assembly	246	710-334	Shoulder Screw 3/8-16 x .625 Dia.
168	438-10710	Switch Bracket	247	736-860	Flat Washer
169	725-203	Safety Switch	248	710-937	Hex Hd. Cap Screw 3/8-16 x 2 1/2" Lg.*
170	712-798	Hex Nut 3/8-16 Thd.*	249	438-9496	P.T.O. Mounting Bracket
171	725-185	Solenoid	250	736-329	Spring Lockwasher 1/4" Scr.*
172	710-258	Hex Hd. Cap Scr. 1/4-20 x 3/8" Lg.*	251	710-289	Hex Hd. Cap Scr. 1/4-20 x 1/2" Lg.*
173	736-329	Spring Lockwasher 1/4" Scr.*	252	714-314	Key—Hi Pro #606
174	712-287	Hex Nut 1/4-20 Thd.*	253	741-151	Thrust Race
175	711-474	Parking Brake Adjustment Rod	254	711-298	P.T.O. Shaft
176	711-288	Ferrule	255	719-130	P.T.O. Drive Pulley
177	438-10705	Selector Lever Support	256	438-9494	P.T.O. Belt Guard Assembly
178	712-287	Hex Nut 1/4-20 Thd.*	257	736-329	Spring Lockwasher 1/4" Screw*
179	715-247	Spirol Pin 3/16" Dia. x 1" Lg.*	258	710-289	Hex Head Cap Screw 1/4-20 x 1/2" Lg.*
180	712-107	Hex Center Lock Nut 1/4-20 Thd.	259	741-123	Needle Bearing 3/4" I.D. x 1.187 O.D.
181	746-129	Choke Control	260	901-9578	P.T.O. Shaft Assembly—Complete
182	710-351	Phil. Hd. Screw #10-Type Z-1/2" Lg.*	261	737-109	Grease Fitting 1/4-28 x 11/16 Thd.
183	722-118	Throttle Control Knob	262	719-134	P.T.O. Shaft Housing
184	—	Part of Ref. No. 193	263	741-123	Needle Bearing 3/4" I.D. x 1.187 O.D.
185	725-201	Starter Key	264	741-151	Thrust Race
186	—	Part of Ref. No. 192	265	711-139	Collar
187	725-119	Ammeter	266	716-110	Snap Ring
188	305-10850	Dash Panel	267	710-356	Sq. Hd. Cap Pt. Set Screw 5/16-18 x 1/2" Lg.*
189	—	Part of Ref. No. 187	268	741-150	Thrust Bearing
190	—	Part of Ref. No. 187	269	712-798	Hex Nut 3/8-16 Thd.*
191	—	Part of Ref. No. 187	270	736-169	Spring Lockwasher 3/8 Scr.*
192	725-200	Starter Switch with Key	271	736-148	External Lockwasher 3/8 Scr.*
193	725-202	Light Switch	272	710-334	Shoulder Screw 3/8-16 x .625 Dia.
194	712-526	Speed Nut	273	736-300	Flat Washer*
195	746-130	Throttle Control	274	712-430	Elastic Stop Nut 3/8-16 Thd.*
196	—	Part of Ref. No. 181	275	710-344	Hex Hd. Cap Screw 3/8-16 x 1 1/2" Lg.*
197	726-119	Button	276	736-148	External Lockwasher 3/8 Screw*
198	310-9528	Bezel—Instrument Panel	277	438-10489	Clutch Idler Bracket Assembly
199	710-322	Sems Hex Hd. Cap Scr. 5/16-18 x 1" Lg.*	278	756-127	Idler P.T.O.
200	727-165	Filter Return Hose	279	736-300	Flat Washer*
201	727-169	Valve to Filter Hose 1/4-20 x 90° to SWIR-F.	280	754-123	P.T.O. Belt 33" Lg.†
202	727-163	Filter Base	281	712-798	Hex Nut 3/8-16 Thd.*
203	727-173	Pipe Adapter (9/16-18 JIC to 1/2-14 NPTE)	282	736-169	Spring Lockwasher 3/8 Scr.*
204	727-162	Fram—Filter Assembly	283	438-9476	P.T.O. Belt Trapout
205	727-167	Pump to Valve Hose	284	736-329	Spring Lockwasher 1/4 Screw*
206	438-10707	Filter Bracket Assembly	285	710-211	Sems Hex Hd. Cap Screw 1/4-20 x 3/4" Lg.*
207	710-198	Sems Hex Hd. Cap Scr. 5/16-18 x 3/4" Lg.*	286	712-107	Hex Locknut 1/4-20 Thd.*
208	712-287	Hex Nut 1/4-20 Thd.*	287	712-430	Elastic Stopnut 3/8-16 Thd.*
209	714-134	Hi Pro Key #808*	288	736-300	Flat Washer*
210	438-9553	Hdy. Lift Lever Assembly	289	736-264	Flat Washer 5/16 Scr.*
211	710-356	Sq. Hd. Set Screw 5/16-18 x 1/2" Lg.*	290	714-474	Cotter Pin 1/8 Dia. x 3/4" Lg.*
212	750-157	Cylinder Spacer	291	711-293	P.T.O. Clutch Rod
213	727-159	Hyd. Cylinder	292	710-258	Hex Hd. Cap Screw 1/4-20 x 3/8" Lg.
214	736-921	Spring Lockwasher 1/2" Scr.*	293	310-9521	Spring
215	710-496	Hex Hd. Cap Scr. 1/2-13 x 4 1/2" Lg.*	294	723-251	Steering Wheel Cap
216	727-168	Valve to Cylinder Hose	295	310-9535	Steering Rod
217	712-384	Hex Center Locknut 1/2-13 Thd.*	296	438-10851	Steering Tube Segment Assembly
219	710-488	Hex Hd. Cap Scr. 1/2-13 x 1 1/2" Lg.*	297	710-349	Sq. Hd. Set Screw 5/16-18 x 3/4" Lg.*
220	438-10724	Lift Arm Shaft Assembly	298	710-253	Hex Hd. Cap Screw 3/8-16 x 1" Lg.*
221	736-329	Spring Lockwasher 1/4" Scr.*	299	737-479	Grease Fitting
222	727-160	Hdy. Valve	300	723-179	Drag Link Ends
223	715-122	Spirol Pin 1/8" Dia. x 1 1/2" Lg.*	301	712-922	Hex Nut 1/2-20 Thd.*
224	310-10738	Lift Valve Handle	302	711-455	Drag Link
225	727-166	Axle to Pump Hose	303	723-156	Tie Rod Ends
226	438-10731	Lift Valve Assembly	304	737-108	Grease Fitting
227	710-106	Hex Hd. Cap Scr. 1/4-20 x 1 1/4" Lg.*	305	312-10457	Front Wheel Hub Assembly
228	438-10677	Axle Support—R.H.	306	741-141	Ball Bearing
229	712-107	Hex Center Locknut 1/4-20 Thd.*	307	710-356	Sq. Hd. Set Screw 5/16-18 x 1/2" Lg.*
230	736-463	Flat Washer 1/4" Scr.*	308	503-9262	Front Wheel Assembly—Complete**
231	710-106	Hex Hd. Cap Scr. 1/4-20 x 1 1/4" Lg.*	309	712-193	Lug Nut 3/8-24 Thd.
232	725-203	Safety Switch	310	748-386	Axle Collar
233	736-225	Internal Lockwasher 3/8 Scr.*	311	438-10718	Front Axle Assembly—L.H.
234	438-10690	P.T.O. Handle Shaft Support Assembly	312	712-200	Elastic Stop Nut 1/2-20 Thd.*
			313	712-711	Hex Jam Nut 3/8-24 Thd.*
			314	711-454	Tie Rod

PARTS LIST FOR TRACTOR (CONTINUED)

REF. NO.	PART NO.	DESCRIPTION
315	438-10717	Front Axle Assembly—R.H.
316	719-133	Front Axle Support
317	710-335	Pivot Bolt
318	712-205	Elastic Stop Nut $\frac{3}{4}$ -10 Thd.
319	719-122	Gear Segment
320	310-9563	Gear Segment Shaft
321	719-121	Pinion Gear
322	715-101	Roll Pin $\frac{1}{4}$ x $1\frac{1}{2}$ " Lg.*
323	748-157	Steering Tube Bushing
324	710-216	Hex Hd. Cap Screw $\frac{3}{8}$ -16 x $\frac{3}{4}$ " Lg.*
325	710-348	Hex Hd. Cap Screw $1\frac{1}{2}$ -13 x $1\frac{5}{8}$ Lg.
326	736-163	Flat Washer*
327	719-136	Rear Wheel Hub
328	714-120	Sq. Key $\frac{1}{4}$ x 3" Lg.*
329	710-470	Wheel Lug Bolts $\frac{1}{2}$ -20 x $1\frac{1}{2}$ Lg.*
330	734-341	Rear Wheel Assembly—Complete**
331	715-101	Spirol Pin $\frac{1}{4}$ x $2\frac{1}{2}$ " Lg.*
332	438-10729	Lift Pull Rod Assembly
333	438-10991	Adjustment Clevis Assembly
334	438-10986	Draft Bar Assembly—R.H.
335	713-148	Chain 20" Lg.
336	438-10996	Draw Bar Assembly
337	438-10994	Clevis Screw Assembly
338	714-117	Hair Pin Cotter $\frac{5}{8}$ Dia. Pin
339	310-7387	Flat Washer

REF. NO.	PART NO.	DESCRIPTION
340	710-216	Hex Hd. Cap Screw $\frac{3}{8}$ -16 x $\frac{3}{4}$ " Lg.*
341	736-169	Spring Lockwasher $\frac{3}{8}$ Scr.*
342	438-10679	Hitch Plate Assembly
343	438-10993	Upper Hitch Bracket
344	711-174	Clevis Pin
345	711-299	Axle Clevis Pin $\frac{5}{8}$ Dia.
346	711-308	Clevis Pin
347	736-179	Flat Washer 17/32 I.D.
348	714-109	Hair Pin Cotter
349	438-10716	Lift Arm Assembly
350	712-342	Hex Jam Nut $\frac{3}{8}$ -16 Thd.
351	310-10988	Hitch Chain Hook $\frac{3}{8}$ Thd.
352	711-225	Clevis Pin
353	438-10985	Draft Bar Assembly—L.H.
354	714-117	Hair Pin Cotter $\frac{5}{8}$ Pin.
355	310-7387	Flat Washer
356	727-174	90° Adapter (Cylinder Parts)
357	438-10771	P.T.O. Engine Sheave
358	714-119	Square Key $\frac{1}{4}$ x $\frac{3}{4}$ " Lg.*
359	719-137	Front Sheave
360	736-133	Flat Washer*
361	736-171	Spring Lockwasher 7/16" Scr.*
362	710-348	Hex Hd. Cap Screw 7/16-20 x $\frac{3}{4}$ " Lg.*
363	438-10706	Steering Tube Hole Cover
364	721-116	Gasket—(Shown in Transaxle Diagram)
365	727-143	Grease Gun

** When ordering service parts include all the information on the side wall of the tire such as the size and brand name.

* For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

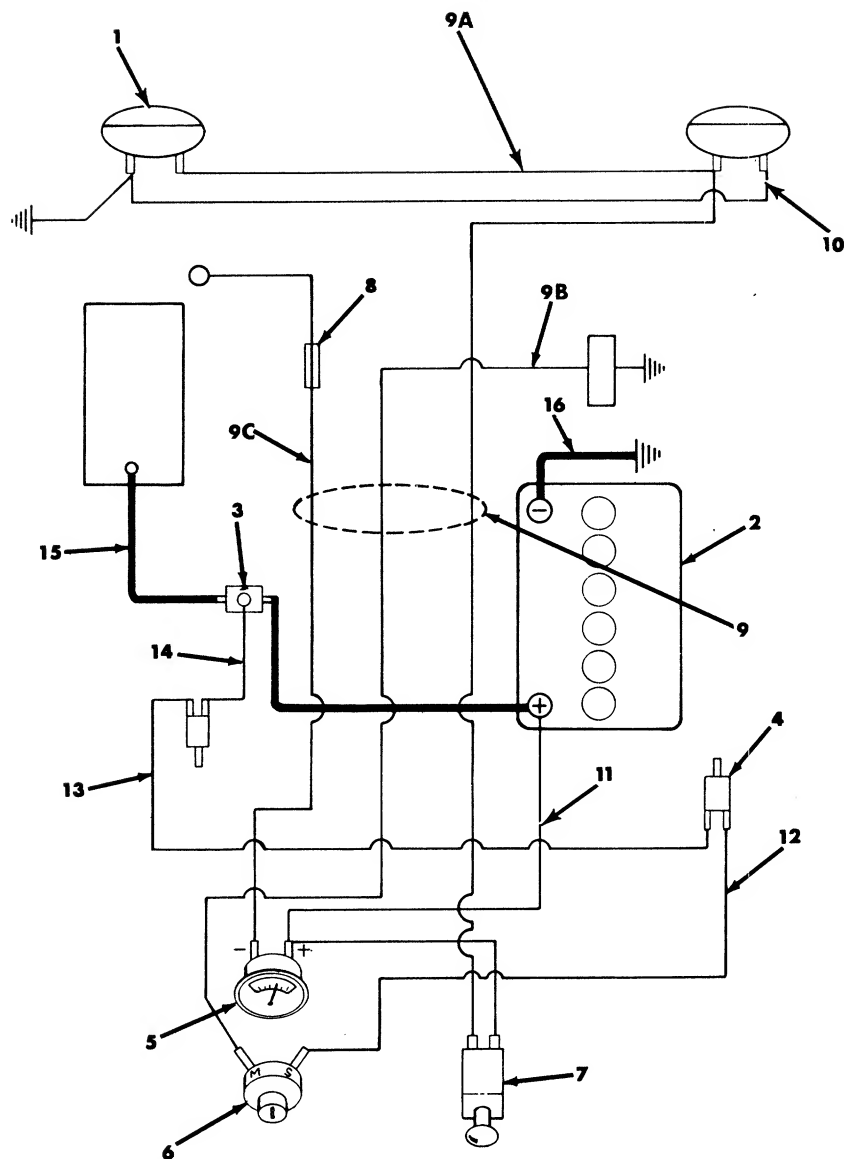
+ Power Take Off belts are matched. Always order in pairs.

711-521- J-Bolts

712-384- $\frac{1}{2}$ -13 nuts

TIRE ONLY.

27 x 9.50-15- 734-397



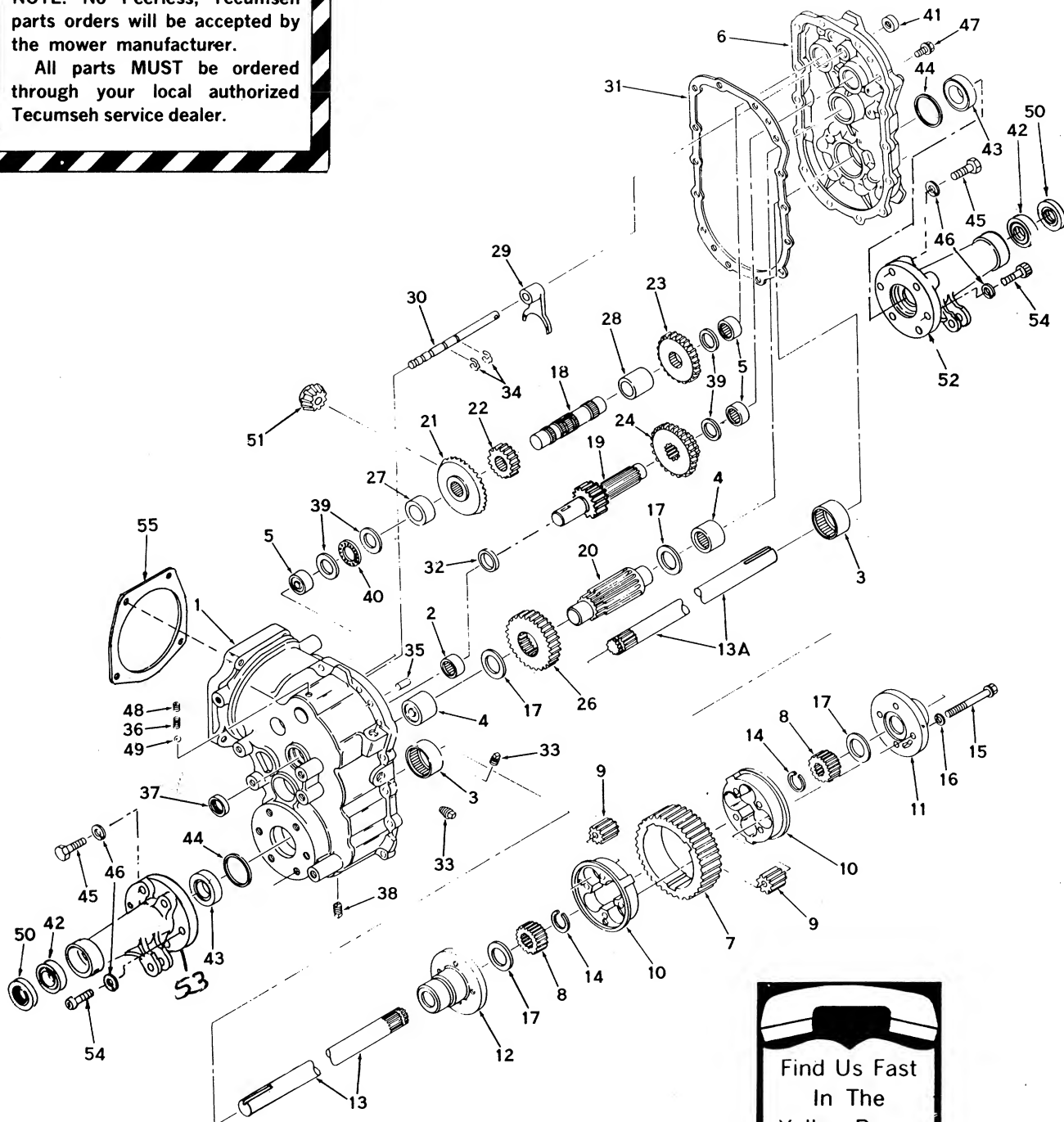
PARTS LIST FOR ELECTRICAL SYSTEM

Ref. No.	Part No.	Qty.	Description
1	725-222	2	Head Light
2	725-130	1	Battery
3	725-185	1	Solenoid
4	725-203	2	Safety Switch
5	725-119	1	Ammeter
6	725-200	1	Key Starter Switch
7	725-202	1	Light Switch
8	725-215	1	Two Way Connector
9	725-215	1	Wire Harness
9A	—	1	Head Light Wire (Part of No. 9)
9B	—	1	Engine Mag. Wire (Part of No. 9)
9C	—	1	Alternator Wire (Part of No. 9)
10	725-204	1	Light Ground Wire
11	725-214	1	Battery To Solenoid and Battery to Ammeter
12	725-223	1	Key Switch To Safety Switch
13	725-223	1	PTO Switch To Drive Switch Wire
14	725-224	1	Drive Switch To Solenoid Wire
15	725-221	1	Solenoid To Starter Motor
16	725-139	1	Battery Ground Wire

TRANSAXLE PEERLESS 2503

NOTE: No Peerless, Tecumseh parts orders will be accepted by the mower manufacturer.

All parts MUST be ordered through your local authorized Tecumseh service dealer.



PEERLESS MODEL 2503

Parts and service available through all authorized Tecumseh, Lauson Power Products Service Dealers. Check the "Yellow Pages" of your telephone directory under "Engines—Gasoline."

TRANSAXLE MODEL 2503

Ref. No.	Part No.	Description
1	770060	Case Assy., Transaxle (Incl. Nos. 2 thru 5)
2	780097	Bearing, Needle
3	780098	Bearing, Needle
4	780099	Bearing, Needle
5	780100	Bearing, Needle
6	772065	Cover Assy., Transaxle (Incl. 3, 4 & 5)
7	778084	Gear, Ring
8	778085	Gear, Side
9	778086	Gear, Pinion
10	786054	Core, Body
11	774199	Carrier, Differential
12	774200	Carrier, Differential
13	774204	Axle, Left Hand
13A	774205	Txle, Right Hand
14	792062	Ring, Snap
15	792063	Screw, $\frac{3}{8}$ -16 x $3\frac{3}{8}$ Hex Hd.
16	792011	Lockwasher, $\frac{3}{8}$ "
17	780101	Washer, Thrust
18	776118	Shaft, Counter
19	776122	Shaft, Brake
20	776120	Pinion, Output
21	778087	Gear, Bevel (30 teeth)
22	778088	Gear, Spur (16 teeth)
23	778096	Gear, Spur (23 teeth)
24	778097	Gear, Cluster (20 and 27 teeth)
26	778098	Gear, Output (37 teeth)
27	786055	Spacer
28	786056	Spacer
29	784195	Fork, Shift
30	784196	Rod, Shift
31	788047	Gasket, Case and Cover
32	780005	Spacer
33	792010	Plug, Pipe
34	792064	Ring, Snap
35	786026	Pin, Dowel
36	792003	Spring
37	788008	Seal, Oil
38	792019	Plug, Magnetic drain
39	780045	Washer, Thrust
40	780012	Bearing, Thrust
41	788034	Seal, Oil
42	780103	Bearing, Ball
43	780104	Bearing, Thrust
44	788048	Seal, Square Cut
45	792065	Screw, $\frac{1}{2}$ -13 x $1\frac{1}{2}$ Hex Hd.
46	792066	Lockwasher, $\frac{1}{2}$ "
47	792067	Screw, $\frac{5}{16}$ -18 x 1Thrd. Forming Hex Hd.
48	792068	Screw, $\frac{1}{4}$ -20 x $\frac{1}{2}$ Set
49	792001	Ball, Steel
50	788049	Seal, Oil
51	778093	Pinion, Bevel
52	782039	Housing, Axle
53	782040	Housing, Axle
54	792069	Screw, $\frac{1}{2}$ -13 x $1\frac{1}{2}$ Allen Hd. Cap
55	788050	Gasket

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PEERLESS MODEL 2503

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